

# SONY

# KVS34MH1

MODEL

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## SERVICE MANUAL

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## Specifications

|                      |                                                                   |
|----------------------|-------------------------------------------------------------------|
| Television standards | B/G, H, I, D/K, M                                                 |
| Color system         | PAL, SECAM, NTSC 4.43, NTSC 3.58                                  |
| NICAM stereo system  | B/G -system: KV-S34MN1/S34SN1/S34JN1/<br>S29MN1/S29SN1/<br>S29JN1 |
| Antenna              | 75-ohm external antenna terminal                                  |
| Speakers             | Woofer 12 cm<br>Middle-High 5 cm                                  |

### Inputs

| Jack    | S VIDEO                                                                                         | VIDEO                                                          | AUDIO L/R                                |
|---------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|
| VIDEO 1 | 4-pin mini DIN<br>Y: 1 Vp-p, 75 ohms,<br>unbalanced, sync<br>negative<br>C: 0.286 Vp-p, 75 ohms | Phono jack<br>1 Vp-p, 75 ohms,<br>unbalanced, sync<br>negative | 0.5 Vrms (standard<br>level, 47 kilohms) |
| VIDEO 2 |                                                                                                 |                                                                |                                          |
| VIDEO 3 |                                                                                                 |                                                                |                                          |
| VIDEO 4 | 4-pin mini DIN<br>Y: 1 Vp-p, 75 ohms,<br>unbalanced, sync<br>negative<br>C: 0.286 Vp-p, 75 ohms |                                                                |                                          |

### Output

| Jack      | S VIDEO                                                                                         | VIDEO                                            | AUDIO L/R                                          |
|-----------|-------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| VIDEO 1   | 4-pin mini DIN<br>Y: 1 Vp-p, 75 ohms,<br>unbalanced, sync<br>negative<br>C: 0.286 Vp-p, 75 ohms | 1 Vp-p, 75 ohms,<br>unbalanced, sync<br>negative | 0.5 Vrms (standard<br>level, 5 kilohms or<br>less) |
| VIDEO 2   |                                                                                                 |                                                  |                                                    |
| VIDEO 4   |                                                                                                 |                                                  |                                                    |
| MONITOR   |                                                                                                 |                                                  |                                                    |
| AUDIO OUT | —                                                                                               | —                                                |                                                    |

### Power requirements

KV-S34JN1/S29JN1: 110 – 240 V AC, 50/60 Hz

KV-S34MN1/S34SN1/S29MN1/S29SN1: 220 – 240 V AC, 50/60 Hz

| Model              | KV-S34MN1/<br>S34SN1/S34JN1                                                                                   | KV-S29MN1/<br>S29SN1/S29JN1                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Picture tube       | 34-inch (about 86 cm)<br>Trinitron tube (about 80 cm<br>picture measured diagonally)<br>110-degree deflection | 29-inch (about 72 cm) Trinitron<br>tube (about 68 cm picture<br>measured diagonally)<br>110-degree deflection |
| Power consumption  | 225 W                                                                                                         | 223 W                                                                                                         |
| Dimensions (w/h/d) | 809 x 649 x 574 mm                                                                                            | 694 x 558 x 527 mm                                                                                            |
| Weight             | 81 kg                                                                                                         | 56 kg                                                                                                         |

### Accessories supplied

RM-821 Remote Commander (1)  
R6 batteries (2)  
Power cord plug adaptor (2, only for KV-S34JN1/S29JN1)  
Band (1), Clamp (2), Screw (4)  
RM-829 Remote Commander  
Optional accessory  
SU-S34 A/V rack  
SU-S29 A/V rack

Design and specifications are subject to change without notice.

**Channel Coverage****MIDDLE EAST/ASIA (B/G, H)**

| Receiveable Channel | Channel Display |
|---------------------|-----------------|
| E-2 to E-12         | C02 to C12      |
| E-21 to E-69        | C21 to C69      |
| <b>Indonesia</b>    |                 |
| 2 to 11             | C03 to C12      |
| <b>Morocco</b>      |                 |
| M-4 to M-7          | C70 to C73      |
| M-8 to M-10         | C8 to C10       |
| <b>New Zealand</b>  |                 |
| 2                   | C03             |
| 3                   | C04             |
| 4 to 9              | C05 to C10      |

**E.EUROPE/CHINA (D/K)**

| Receiveable Channel            | Channel Display |
|--------------------------------|-----------------|
| <b>East European countries</b> |                 |
| R-1 to R-12                    | C01 to C12      |
| R-21 to R-60                   | C21 to C60      |
| <b>China</b>                   |                 |
| C-1                            | C01             |
| C-2                            | C02             |
| C-3                            | C13             |
| C-4                            | C03             |
| C-5                            | C04             |
| C-6                            | C14             |
| C-7 to C-12                    | C06 to C11      |
| C-13 to C-24                   | C21 to C32      |
| C-25 to C-47                   | C38 to C60      |
| C-48 to C-57                   | C61 to C70      |

**CATV W. EUROPE (B/G, H)**

| Receiveable Channel | Channel Display |
|---------------------|-----------------|
| S-01 to S-03        | C42 to C44      |
| S-1 to S-41         | C01 to C41      |

**AMERICA (M)**

| Receiveable Channel | Channel Display |
|---------------------|-----------------|
| 2 to 83             | C02 to C83      |

**AUSTRALIA (B/G, H)**

| Receiveable Channel | Channel Display |
|---------------------|-----------------|
| <b>Australia</b>    |                 |
| AS-0 to AS-11       | C00 to C11      |
| AS-5A               | C12             |
| AS-28 to AS-69      | C28 to C69      |
| <b>New Zealand</b>  |                 |
| 2 to 3              | C01 to C02      |
| 4 to 7              | C06 to C09      |
| 8                   | C13             |
| 9                   | C10             |

**CATV AMERICA (M)**

| Receiveable Channel | Channel Display    |
|---------------------|--------------------|
| 2 to 13             | C02 to C13         |
| A-1                 | C99                |
| A-2                 | C98                |
| A-3                 | C97                |
| A-4                 | C96                |
| A-5                 | C95                |
| A-6                 | C06                |
| A-7                 | C05                |
| A-8                 | C01                |
| A, B, ..., W        | C14, C15, ..., C36 |
| AA, ..., CCC        | C37, ..., C65      |

**HK/UK (I)**

| Receiveable Channel              | Channel Display    |
|----------------------------------|--------------------|
| <b>Hong Kong, United Kingdom</b> |                    |
| B-21 to B-68                     | C21 to C68         |
| <b>Ireland</b>                   |                    |
| B, C, ..., J                     | C02, C03, ..., C09 |
| <b>South Africa</b>              |                    |
| 4 to 13                          | C04 to C13         |
| 21 to 68                         | C21 to C68         |

**JAPAN**

| Receiveable Channel | Channel Display |
|---------------------|-----------------|
| J-1 to J-62         | C01 to C62      |
| C-13 to C-32        | C80 to C99      |

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## CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



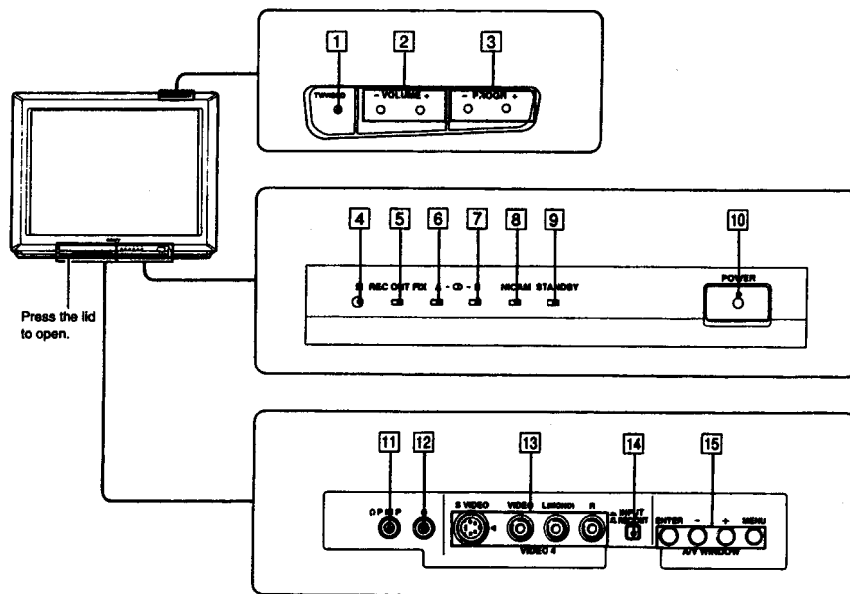
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## SECTION 1 GENERAL

### 1-1. OVERVIEW

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

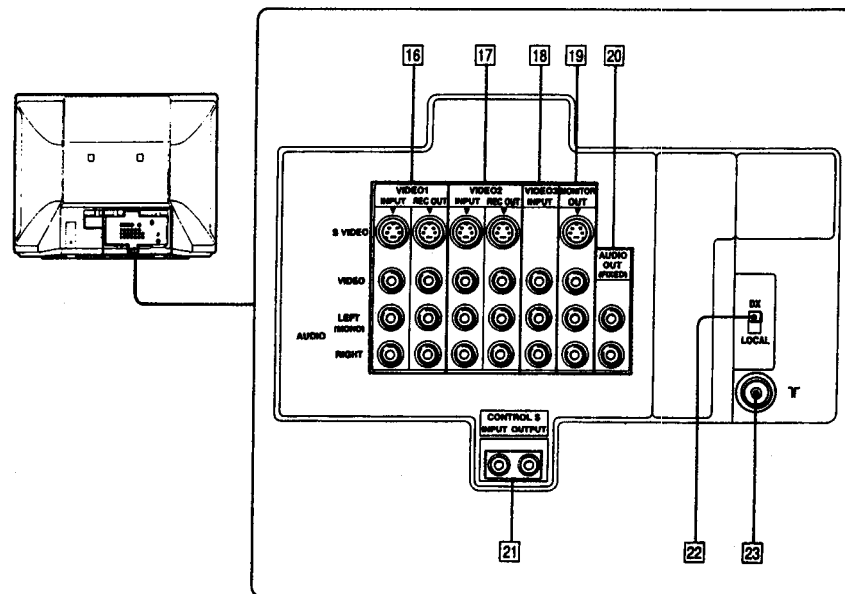
#### TV set



- 1 TV/VIDEO button ●
- 2 VOLUME +/- buttons ●  
Press to adjust the volume.
- 3 PROGR (program) +/- buttons ●  
Press to select a program.
- 4 Remote control detector  
Operate the Remote Commander pointed at here.
- 5 REC OUT(recording output) FIX lamp ●
- 6 A mode lamp ●
- 7 B mode lamp ●
- 8 NICAM lamp ●

- 9 STANDBY lamp
- 10 POWER switch
- 11 P IN P (Picture In Picture) headphones jack  
Connect a headphone to listen to the sound of P IN P picture.
- 12 Headphones jack  
Connect a headphones to listen personally.
- 13 VIDEO 4 connectors ●
- 14 VIDEO 4 INPUT/REC OUT(recording output) button ●  
Press to switch the video 4 connectors to input or output.
- 15 Menu and A/V(audio/video) WINDOW function buttons  
●●●●●●●●●●

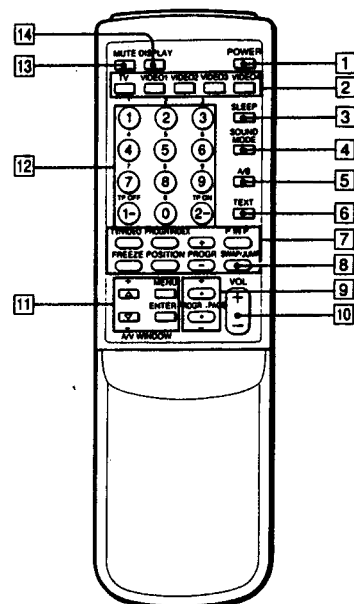
#### Rear



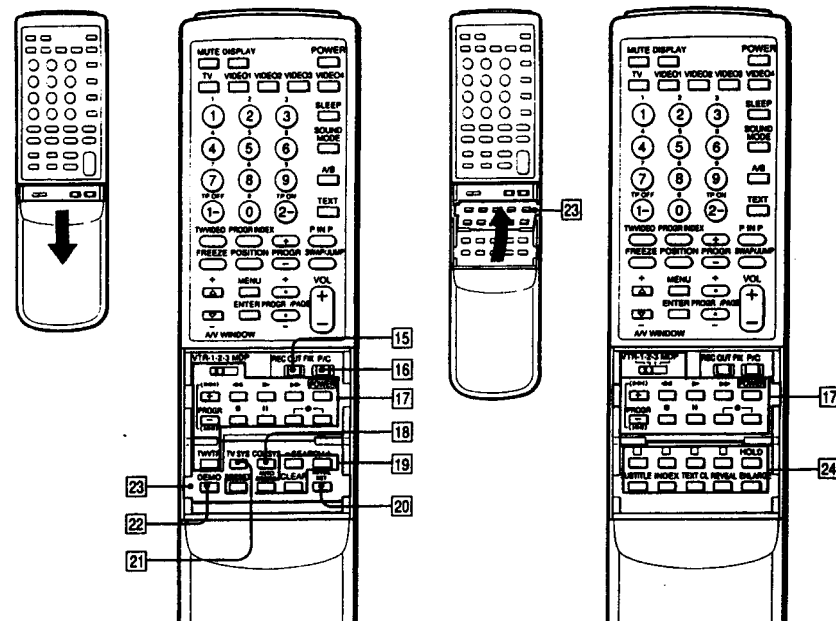
- 16 VIDEO 1 INPUT/REC OUT(recording output) jacks ●
- 17 VIDEO 2 INPUT/REC OUT(recording output) jacks ●
- 18 VIDEO 3 INPUT jacks ●
- 19 MONITOR OUT(output) jacks  
Connect another TV or monitor.
- 20 AUDIO OUT(output) (FIXED) jacks ●
- 21 CONTROL S INPUT/OUTPUT jacks  
To control the TV with the Remote Commander to be pointed at another Sony equipment, connect the Sony equipment to INPUT.  
To control another Sony equipment with the Remote Commander to be pointed at the TV, connect the Sony equipment to OUTPUT.

- 22 DX/LOCAL switch  
Normally set this switch to DX. If the sound is noisy, or lines or stripes appear on the screen because of too strong TV signal, set the switch to LOCAL.
- 23 T (antenna) terminal ●

## Remote Commander



- |                                                                                                                  |                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>1</b> POWER button ●                                                                                          | <b>7</b> P IN P (Picture In Picture) screen control buttons ● ●                   |
| <b>2</b> TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 (FRONT) input select buttons ●                                   | <b>8</b> JUMP button ●                                                            |
| <b>3</b> SLEEP button ●<br>Press to set the sleep timer so that the TV automatically switches into standby mode. | <b>9</b> PROGR(program)/PAGE +/- buttons ● ● ●                                    |
| <b>4</b> SOUND MODE button ●<br>Press to select the sound mode according to the program.                         | <b>10</b> VOL(volume) +/- buttons ●                                               |
| <b>5</b> A/B button ●<br>Press to select the sound mode of stereo or bilingual program.                          | <b>11</b> Menu and A/V(audio/video) window function buttons ● ● ● ● ● ● ● ●       |
| <b>6</b> TEXT button ●<br>Press to switch to teletext mode.                                                      | <b>12</b> Program number buttons ●                                                |
|                                                                                                                  | <b>13</b> MUTE button ●                                                           |
|                                                                                                                  | <b>14</b> DISPLAY button ●<br>Press to display current mode and program position. |



- 15** REC OUT(recording output) FIX button ●  
Press to fix the source to be recorded.
- 16** P/C (program position/channel) button ●
- 17** VTR/Multi disc player controls
- 
- When the panel **23** is in the lower position
- 18** COL SYS(color system) button ●  
Press to select a color system.
- 19** Channel presetting buttons ● ●
- 20** INITIAL SET button  
Press to reset the adjustment and setting to factory-set mode.
- 21** TV SYS(system) button ● ●  
Press to select a TV system.
- 22** DEMO(demonstration) button ●  
Press to see all the menu pages in sequence.

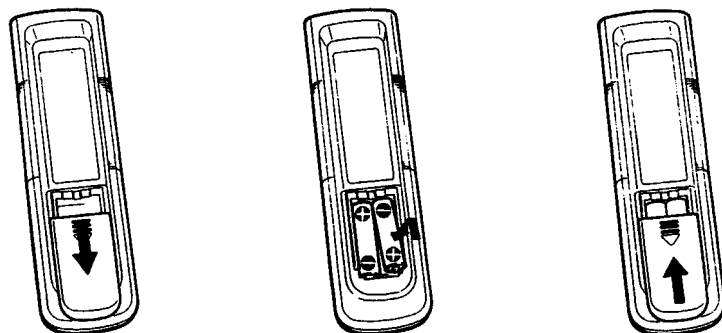
- 23** Panel  
Make sure that the panel is fixed in the upper or lower position.

When the panel is in the upper position

- 24** Teletext operation buttons ● ●

## 1-2. INSERTING THE BATTERIES INTO THE SUPPLIED REMOTE COMMANDER

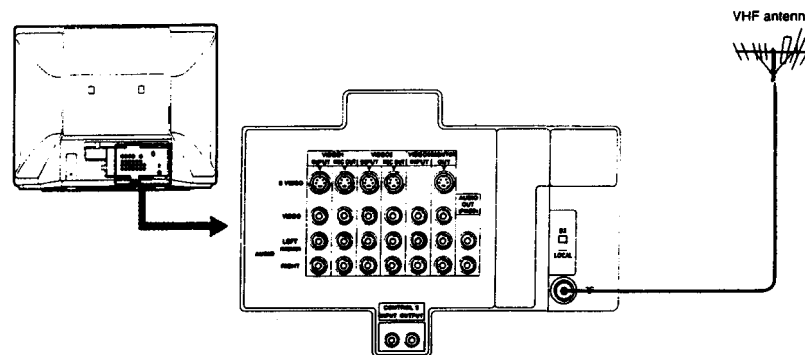
- 1 Detach the cover.
- 2 Check the correct polarities.
- 3 Replace the cover.



## 1-3. CONNECTING THE ANTENNA

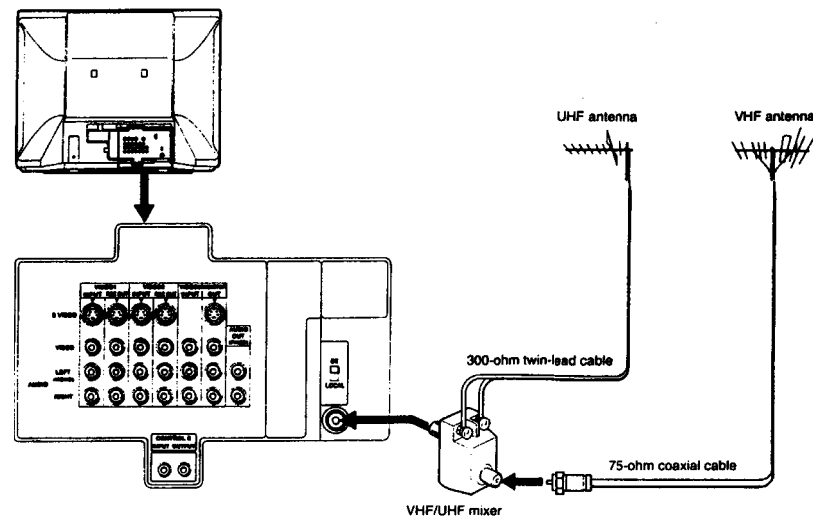
### Connecting a VHF Antenna or a Combination VHF/UHF Antenna—Round 75-ohm Coaxial Cable

Attach an IEC antenna connector to 75-ohm coaxial cable.  
Plug the connector into the "I" (antenna) socket at the rear of the TV.



### Connecting Both VHF and UHF Antennas

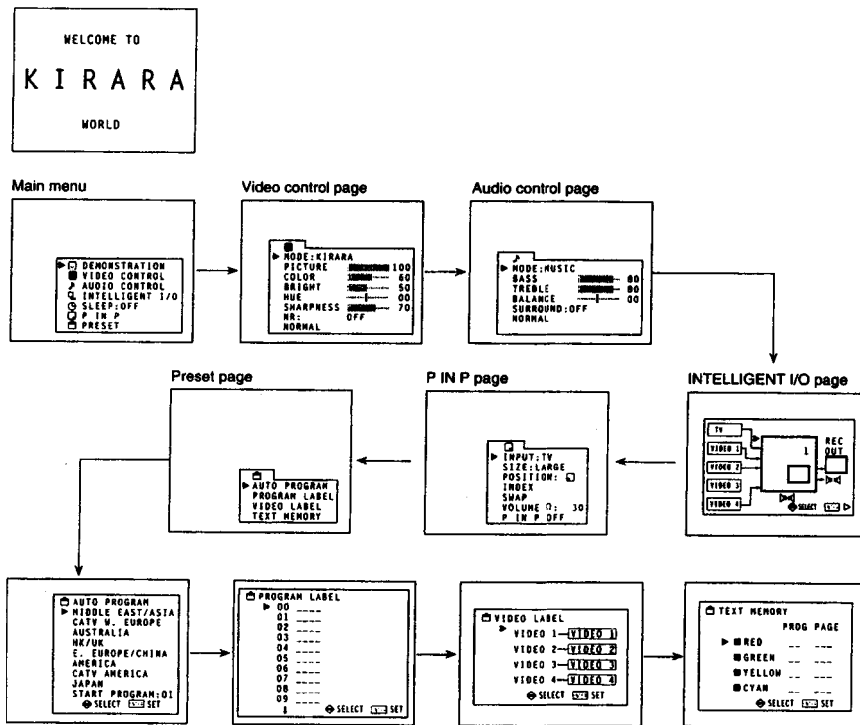
Attach the antenna ends to the VHF/UHF mixer (not supplied).  
Plug the mixer into the "I" (antenna) socket at the rear of the TV.



## 1-4. INTRODUCTION OF MENU

You will perform presetting, adjustment and other setting on the menu. Before beginning the presetting and operation, we suggest to have a look at the pages in the menu.

Press the DEMO button on the Remote Commander.  
All the menu pages appear in sequence, and repeatedly.  
To stop demonstration, press any button.



## 1-5. PRESETTING THE CHANNELS

### Channel Allocation

#### Areas allocated in "MIDDLE EAST/ASIA" channel system

Afghanistan, Albania, Algeria, Austria, Bahrain, Bangladesh, Belgium, Brunei, Canary Islands, Cyprus, Denmark, Egypt, Finland, Germany, Ghana, Gibraltar, Greece, Iceland, India, Indonesia, Iran, Iraq, Italy, Jordan, Kenya, Republic of Korea, Kuwait, Lebanon, Liberia, Libya, Luxemburg, Malaysia, Malta, Mauritania, Mauritius, Maldives Rep., Morocco, Mozambique, Nepal, Netherlands, New Zealand, Nicaragua, Nigeria, Norway, Oman, Pakistan, Portugal, Qatar, Sarawak, Saudi Arabia, Seychelles, Sierra Leone, Singapore, Spain, Sri Lanka, Sudan, Swaziland, Sweden, Switzerland, Syrian Arab Rep., Tanzania, Thailand, Tunisia, Turkey, Uganda

#### Areas allocated in "CATV W. EUROPE" channel system

United Arab Emirates, Western Sahara, Yemen Arab Republic, People's Dem. Rep. of Yemen, Yugoslavia, Zambia, Zimbabwe

#### Areas allocated in "AUSTRALIA" channel system

Australia, New Zealand

#### Areas allocated in "HK/UK" channel system

Hong Kong, Ireland, Lesotho, South Africa, United Kingdom

#### Areas allocated in "E. EUROPE/CHINA" channel system

Benin, Bulgaria, China, Congo, Czechoslovakia, Djibouti Republic, Gabon, Guadeloupe, Guiana, Guinea (P.P.R.), Hungary, Ivory Coast, Dem. People's Rep. of Korea, Madagascar, Mongolia, New Caledonia, Niger, Poland, Reunion, Rumania, Senegal, Tahiti, Togo, Former U.S.S.R., Vietnam, Zaire

#### Areas allocated in "AMERICA" channel system

Bahama Islands, Barbados, Belize, Bermuda, Bolivia, Burma(UHF), Canada, Chile, Colombia, Costa Rica, Cuba, Dominica Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Hawaii, Honduras, Jamaica, Laos, Mexico, Panama, Peru, Philippines, Puerto Rico, Surinam, Taiwan, Trinidad & Tobago, U.S.A., Venezuela

#### Areas allocated in "CATV AMERICA" channel system

U.S.A.(CATV)

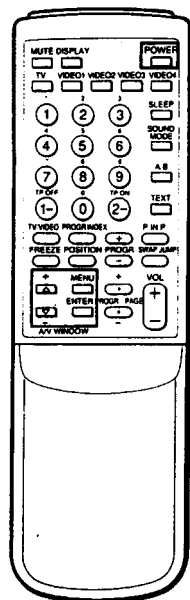
#### Areas allocated in "JAPAN" channel system

Japan (UHF, VHF), Burma (Myanmar) (VHF)

### TV and Color System of the Channel System

The TV system and color system are automatically set according to the channel system.

| Channel system   | TV system                         | Color system |
|------------------|-----------------------------------|--------------|
| MIDDLE EAST/ASIA | B/G, H; West European TV standard | AUTO         |
| CATV W.EUROPE    | B/G, H; West European TV standard | AUTO         |
| AUSTRALIA        | B/G, H; Australian TV standard    | AUTO         |
| HK/UK            | I; British TV standard            | AUTO         |
| E.EUROPE/CHINA   | D/K; East European TV standard    | AUTO         |
| AMERICA          | M; American TV standard           | AUTO         |
| CATV AMERICA     | M; American TV standard           | AUTO         |
| JAPAN            | M; Japan TV standard              | AUTO         |



### Preset Channels Automatically

Up to 30 receivable channels from the lowest channel are automatically preset in the consecutive program positions (1 to 29, 0). With this method, you can preset all receivable channels at once.

- 1 Press the POWER switch on the TV to turn on the TV.
- 2 Press MENU on the Remote Commander.
- 3 Move the red cursor to "PRESET" using  $\Delta$  or  $\nabla$ , then press ENTER.

DEMONSTRATION  
VIDEO CONTROL  
AUDIO CONTROL  
INTELLIGENT I/O  
SLEEP OFF  
P IN P  
PRESET

- 4 Move the red cursor to "AUTO PROGRAM" using  $\Delta$  or  $\nabla$ , then press ENTER.

AUTO PROGRAM  
PROGRAM LABEL  
VIDEO LABEL  
TEXT MEMORY

- 5 Move the red cursor to your channel system using  $\Delta$  or  $\nabla$ , according to the list on page 11, then press ENTER. Presetting starts from program position 1. When presetting is finished, 1 (program number) appears.

Program and channel numbers

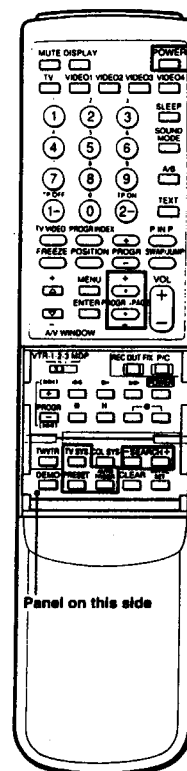
P01 C01 → P01 C02 → P02 C03 → 1

#### If you want to start a program number other than 1

Before pressing ENTER in step 5, press PROGR +/- or the number button until the number you want appears at "START PROGRAM : \_".

#### If you cannot use the Remote Commander

Use the MENU, ENTER, + and - buttons on the TV, and perform as above.



### To preset the channels automatically without using the menu

- 1 Press the POWER switch of the TV to turn on the TV.
- 2 Press PRESET on the Remote Commander. P01 C01
- 3 Select your channel system by pressing TV SYS, referring to "Channel Allocation" on page 11.  
MIDDLE EAST/ASIA → CATV W. EUROPE → AUSTRALIA → HK/UK  
↑  
JAPAN → CATV AMERICA → AMERICA → E. EUROPE/CHINA
- 4 Press AUTO PROGR.  
P01 C01 → P01 C02 → P02 C03 → 1

### Preset Channels Manually

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one.

- 1 Press the POWER switch of the TV to turn on the TV.
- 2 Press PRESET on the Remote Commander. P01 C01
- 3 Using the PROGR/PAGE + and - buttons, select the program position to which you want to preset a channel. P03 C01
- 4 Select your channel system by pressing TV SYS.  
MIDDLE EAST/ASIA → CATV W. EUROPE → AUSTRALIA → HK/UK  
↑  
JAPAN → CATV AMERICA → AMERICA → E. EUROPE/CHINA
- 5 Tune in the channel, using the SEARCH +/- buttons. The channel number starts counting up or downwards. When a channel is found, it stops. P03 C01
- 6 Repeat steps 3 to 5 to preset other channels.
- 7 Press PRESET. 3

## 1-6. ADDITIONAL PRESETTING FUNCTIONS

### Skipping Program Positions

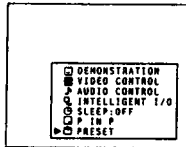
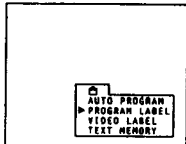
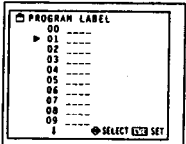
You can skip unused program positions when selecting programs with the PROG/PAGE + and - buttons. However, the skipped programs may still be called up when you use the number buttons.

- 1 Press PRESET. P01 C01
- 2 Select the program position using PROG/PAGE + and - buttons. P03 C01
- 3 Press CLEAR. P03 C--
- 4 Press PRESET. 1

Repeat steps 1 to 4 to skip other program positions.

### Captioning a Station Name

You can "name" a channel using up to four characters so that the name is displayed under the program number. Using this function, you can easily identify which channel you are watching.

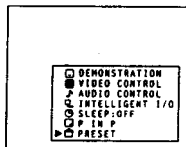
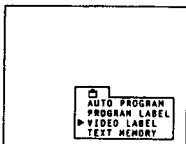
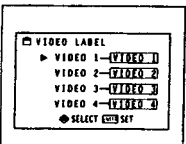
- 1 Press MENU.
- 2 Move the red cursor to "PRESET" using Δ or ∇, then press ENTER.
 
- 3 Move the red cursor to "PROGRAM LABEL" using Δ or ∇, then press ENTER.
 
- 4 Move the red cursor to the program number you want using Δ or ∇, then press ENTER. The first underline of the selected program number turns red.
 
- 5 Select a character using Δ or ∇, then press ENTER. The next underline turns red. Write character for each underline in the same way. If you do not want to write a character, press ENTER.
 

01 C\_ → 01 C0\_ → 01 CBS\_

Usable characters: A to Z, 0 to 9, -, ., /, . (period), + and space
- 6 Repeat steps 4 and 5 to caption other program numbers.
- 7 When you finished, press MENU.

### Captioning a Video Input

Using this function, you can identify the source (VHS, Beta, 8mm, Multi disc player, Tuner) of the video inputs, as the source is displayed under the video input.

- 1 Press MENU.
- 2 Move the red cursor to "PRESET" using Δ or ∇, then press ENTER.
 
- 3 Move the red cursor to "VIDEO LABEL" using Δ or ∇, then press ENTER.
 
- 4 Move the red cursor to the video input (1, 2, 3, 4) you want using Δ or ∇.
 
- 5 Press ENTER until the source name appears.
 

VIDEO 1 → VHS → BETA → 8mm → LD → TUNER
- 6 Repeat steps 4 and 5 for other video input.
- 7 When you finished, press MENU.

## 1-7. WATCHING THE TV

This section explains the basic functions you use while watching the TV.

### Switching the TV on and off

#### Switching on

Press the POWER switch on the TV.

#### Switching off temporarily

Press POWER on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

#### Switching on again

Press POWER, TV, PROGR/PAGE +/-, or one of the number buttons on the Remote Commander.

If you cannot use the Remote Commander, press PROGR +/- on the TV.

#### Switching off completely

Press the POWER switch on the TV.

### Selecting TV Programs

Press PROGR/PAGE +/- or press number buttons.

To select program 5, press "5".

To select program 10, press "1-" "0".

To select program 25, press "2-" "5".

#### To return to the previous program number

Press JUMP. (This button functions as SWAP when the P IN P (see page 21) is displayed.)

#### If the sound is noisy or not heard

Press TV SYS until the sound becomes clear.

#### If the color program does not appear in color

Press COL SYS until the color becomes normal.

### Selecting TV Program by Channel Number (not by program number)

See page 29 for the channel numbers.

1 Press P/C so that C- appears.

2 While C- is on, select the channel system by pressing TV SYS.

The TV becomes channel tuning mode.

3 While C- is on, press the channel number.

To select channel 5, press "0", "5".

To select channel 25, press "2", "5".

#### To skip channels

1 Press P/C so that C- appears.

2 Select the channel number to be skipped using the number buttons or PROGR/PAGE +/- buttons.

3 Press CLEAR.

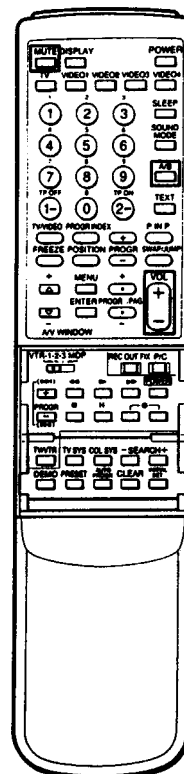
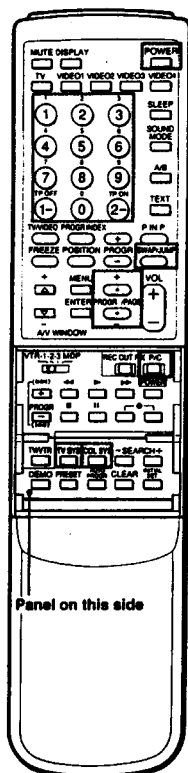
Repeat steps 1 to 3 to skip other channels.

To restore the skipped channel, tune in the channel and press PRESET.

#### To select TV programs by program number

1 Press P/C so that P- appears.

2 While P- is on, press the program number.



### Adjusting the Volume

Press VOL +/-.



### Muting the Sound

Press MUTE.

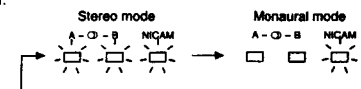
MUTE

To resume normal sound, press MUTE again.

### Receiving a Stereo or Bilingual Program

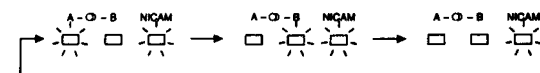
#### When the TV receives a NICAM stereo system program

The NICAM lamp, A and B mode lamps light. Press A/B to select stereo or monaural mode. If the signal is very weak, the sound becomes monaural. The NICAM, A and B mode lamps go off.



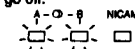
#### When the TV receives a NICAM bilingual system program

The NICAM lamp, A and/or B mode lamp(s) light. Press A/B so that the lamp (A or B) of the mode you want lights up.



#### When the TV receives a German stereo system program

The A and B mode lamps light. If the signal is very weak, the sound becomes monaural. The lamps go off.



#### When the TV receives a German bilingual system program

A and/or B mode lamp(s) light(s). Press A/B so that the lamp (A, B, or A and B) of the mode you want lights up.

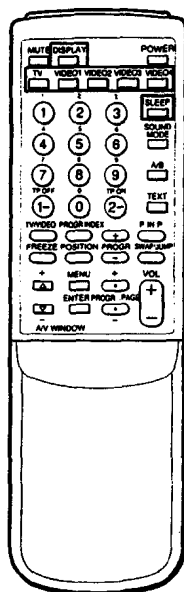


#### Who can receive the NICAM stereo/bilingual system

The NICAM stereo/bilingual system is receivable in Hong Kong, Singapore, New Zealand, etc.

#### Who can receive the German stereo/bilingual system

The German stereo/bilingual system is receivable in Australia, Malaysia, Thailand, etc.



## Watching Video Input

Using the VIDEO 1, VIDEO 2, VIDEO 3, and VIDEO 4 buttons, select the video input. To go back to the normal TV picture, press TV.

### When you select VIDEO 4

If "SELECT INPUT MODE" appears on the screen, press the VIDEO 4 INPUT/REC OUT button on the front panel of the TV to select INPUT (IN).

**On the TV**  
Press TV/VIDEO.

## Displaying the On-screen Indications

### Press DISPLAY.

The program number, color and TV system setting and sound mode appear. They, except the program number, will disappear after some seconds. Press again to make indications disappear.

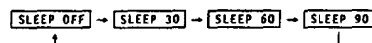
In channel tuning mode (C-), channel number, channel system and sound mode appear.



## Using the Sleep Timer

You can select the time period after which the TV automatically switches into standby mode. Select the time period by pressing SLEEP.

The time period (in approximate minutes) changes as follows:



About one minute before the TV switches into standby mode, "SLEEP" is displayed on the screen.

**To switch off the sleep timer**  
Press SLEEP until "SLEEP OFF" appears.

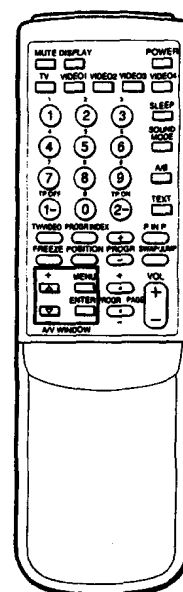
**To check the remaining time**  
Press SLEEP.

If you do not want to change the remaining time, leave it until it disappears automatically.

### Setting the sleep timer using the menu or on the TV set

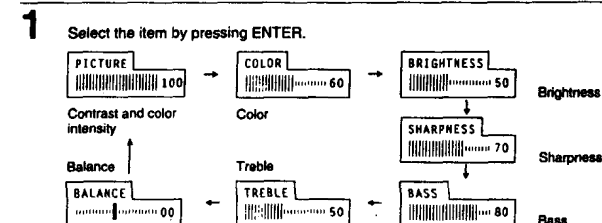
Use the MENU, ENTER, Δ and ∇ buttons on the Remote Commander or on the TV.

- 1 Press MENU.
- 2 Move the cursor to "SLEEP" using Δ or ∇.
- 3 Press ENTER until the time period you want appears at "SLEEP: \_".



## Adjusting the Picture and Sound

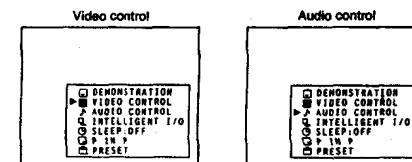
Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.



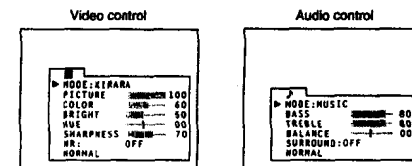
- 2 Using Δ or ∇ button, adjust the item to your taste.

**Adjusting the picture and sound using the menu or on the TV set**  
Use the MENU, ENTER, Δ and ∇ buttons on the Remote Commander or on the TV.

- 1 Press MENU.
- 2 To adjust the picture, move the red cursor to "VIDEO CONTROL" using Δ or ∇, then press ENTER.  
To adjust the sound, move the red cursor to "AUDIO CONTROL" using Δ or ∇, then press ENTER.



- 3 Move the red cursor to the item you want to adjust using Δ or ∇, then press ENTER.

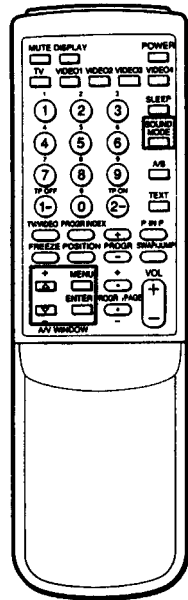


- 4 Adjust the item. (See the table on page 20.)

- 5 Press MENU to turn off the menu.



## 1-8. PICTURE IN PICTURE (P IN P)



### Effect of each control

#### Picture

| Item             | Press       | Effect                                                                                    |
|------------------|-------------|-------------------------------------------------------------------------------------------|
| MODE             | ENTER       | → KIRARA → MIDDLE → SOFT                                                                  |
| PICTURE          | Δ/V → ENTER | Less [     ] More                                                                         |
| COLOR            | Δ/V → ENTER | Less [     ] More                                                                         |
| BRIGHT           | Δ/V → ENTER | Darker [     ] Brighter                                                                   |
| HUE              | Δ/V → ENTER | Greenish [     ] Reddish (for NTSC signal only)                                           |
| NR <sup>1)</sup> | ENTER       | → OFF → ON                                                                                |
| NORMAL           | ENTER       | "NORMAL" becomes red in a moment and the settings are reset to the factory preset levels. |

1) Noise reduction. Set to ON when the picture is noisy because of a weak signal or tape deterioration.

#### Sound

| Item     | Press       | Effect                                                                                    |
|----------|-------------|-------------------------------------------------------------------------------------------|
| MODE     | ENTER       | → MUSIC → STANDARD → NEWS                                                                 |
| BASS     | Δ/V → ENTER | Less [     ] More                                                                         |
| TREBLE   | Δ/V → ENTER | Less [     ] More                                                                         |
| BALANCE  | Δ/V → ENTER | Left speaker [     ] Right speaker                                                        |
| SURROUND | ENTER       | → OFF → MUSIC <sup>2)</sup> → MOVIE <sup>3)</sup> → SPACE <sup>4)</sup>                   |
| NORMAL   | ENTER       | "NORMAL" becomes red in a moment and the settings are reset to the factory preset levels. |

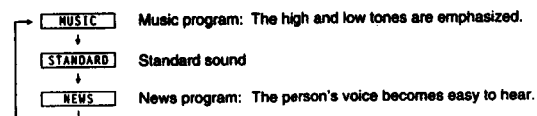
- 2) MUSIC mode is effective for music programs.  
 3) MOVIE mode is effective for movie programs.  
 4) SPACE mode gives spacious monaural sound.

#### Notes

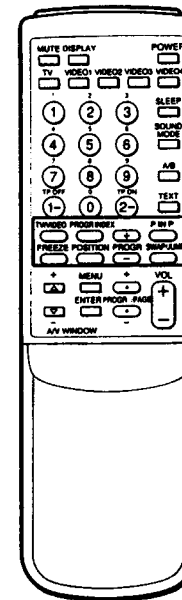
- When the menu is displayed, you cannot change the program using the number buttons. Use PROG/PAGE +/-.
- When there is no signal, the screen is blue. However, the screen is noisy when the menu or the P IN P (see page 21) are displayed.

### Selecting the Sound Mode

You can select a proper sound mode in accordance with the program.  
 Select the sound mode by pressing SOUND MODE.



### Buttons for P IN P operation



With this function you can display a "P IN P screen" (small picture) within the main picture of TV program or video input. In this way you can watch or monitor TV program or the video input from any connected equipment while watching TV or other video input. For information about connection of other equipment, see page 25.

### Switching P IN P on and off

Press P IN P.

The P IN P screen is displayed. The P IN P picture comes from the source chosen when the TV was last used.

### To switch P IN P off

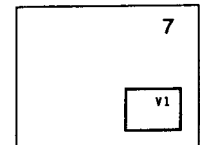
Press P IN P again.

### Selecting a P IN P source

To select a TV program, use PROG+ and - buttons of the P IN P section.  
 To select a video input, press TV/VIDEO.

Each time you press TV/VIDEO, the indication at the top right corner of the P IN P screen changes:

→ TV program number → V1 → V2 → V3 → V4



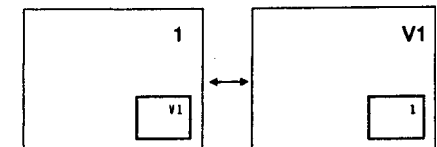
#### Notes

- If no video source has been connected, the P IN P screen is black.
- You may not be able to receive some channels in P IN P, even though they are being received for the main picture.
- If you display the signals for different color systems (PAL, SECAM, NTSC) for the main picture and in the P IN P, size of the P IN P may be different.
- If a TV channel in which no program is broadcast is received for the P IN P screen, the program number of P IN P may become black.

### Swapping screens

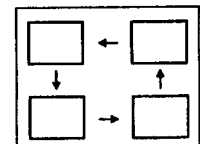
Press SWAP.

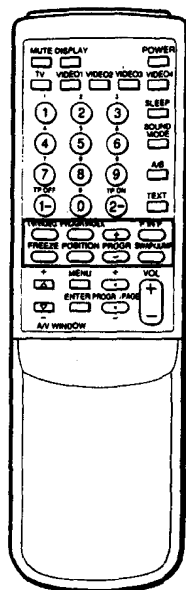
The main screen switches the picture with the P IN P screen.



### Changing the position of the P IN P

Press POSITION repeatedly to change the position of the P IN P screen. There are four different positions available.





### Freezing the P IN P picture

Press FREEZE.

To restore the normal picture, press FREEZE again.

### Note

If you press FREEZE when there is no P IN P screen, the main picture is frozen and appears in the P IN P screen.

### Checking the programs available

Press PROGR INDEX. The preset programs appear in the P IN P screen one by one in sequence.

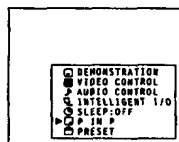
To stop checking programs, press PROGR INDEX.

### Operating P IN P using the menu or on the TV set

Use the MENU, ENTER, Δ and ∇ buttons on the Remote Commander or on the TV.

Using the menu, you can change the P IN P size and adjust the P IN P headphone volume to hear through the headphone besides the above operations.

- 1 Press MENU.
- 2 Move the red cursor to "P IN P" using Δ or ∇, then press ENTER.



- 3 Move the red cursor to the item you want to set using Δ or ∇, then press ENTER.

INPUT: TV → VIDEO 1 → VIDEO 2 → VIDEO 3 → VIDEO 4

SIZE: SMALL → LARGE

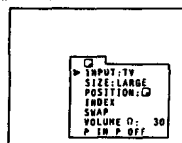
POSITION: [Small icon] → [Medium icon] → [Large icon]

INDEX: Performed on the P IN P screen.

SWAP: Performed on the TV.

VOLUME: Adjust using Δ or ∇, then press ENTER.

P IN P OFF: The P IN P screen disappears.

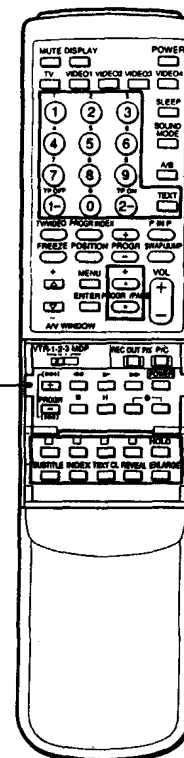


### Note

When you display a VTR picture at speeds other than normal speed, such as fast-forward playback, on the P IN P screen, the picture may be noisy depending on the VTR. The picture may be improved by selecting the "SMALL" size of the P IN P screen.

## 1-9. TELETEXT

### Buttons for teletext operation



TV stations broadcast an information service called Teletext via a TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want.

### Switching Teletext on and off

- 1 Select the TV channels which carries the teletext broadcast you want to watch.
- 2 Press TEXT to switch on the teletext.  
A teletext page will be displayed (usually the index page).  
If there is no teletext broadcast, P100 is displayed at the top left corner of the screen.

### To switch Teletext off

Press TV.

### Superimposing a Teletext page on the TV picture (MIX mode)

Press TEXT.

Each time you press TEXT, the screen changes:



### Checking the contents of the Teletext

Press INDEX to have the overview of the contents of the teletext and page numbers.

### Selecting a Teletext page

Use the number buttons to input the three digits of the page number you want to turn on.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

To access the next or preceding page, press PAGE + or PAGE -.

### Holding a Teletext page

A teletext page may consists of several subpages. You can stop the page scrolling in order to read the text at your own pace.

Press HOLD.

The HOLD symbol "Ⓜ" is displayed at the top left of the screen.

To resume normal teletext operation, press TEXT.

### Enlarging the Teletext display

Press ENLARGE once to enlarge the upper half, twice to enlarge the lower half, and again to resume normal size.

### Revealing concealed information

Sometimes pages contain concealed information, such as an answer to a quiz. The reveal option lets you disclose the information.

Press REVEAL.

To conceal the information, press REVEAL again.

### Displaying subtitles

Press SUBTITLE.

To make the subtitle disappear, press SUBTITLE again.

### Waiting for Teletext page while watching the TV program

After requesting a page, press TEXT CLEAR.  
When the page is available, the page number is displayed at the top left corner of the screen.  
Press TEXT to switch the teletext on.

### Displaying Teletext page at predetermined time

- 1 Request a time coded page (e.g. alarm page).
- 2 Press TP ON.  
"T\*\*\*\*" appears at the bottom of the screen.
- 3 Enter your request time of four digits using the number buttons. For example, if you enter 0730, the indication will become "T0730".
- 4 To watch the TV program, press TEXT CLEAR.
- 5 At the requested time, the page number is displayed at the top left corner of the screen.  
To view the page, press TEXT.  
To cancel the page, press TP OFF.

### Using Fastext

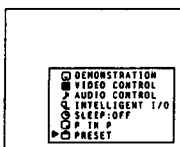
With Fastext you can access pages with one key stroke.  
When a Fastext page is broadcast, a color-coded menu will appear at the bottom of the screen. The colors of this menu correspond to the RED, GREEN, YELLOW and CYAN buttons on the Remote Commander.  
Press the color button which corresponds to the color-coded menu. The page will be displayed after some seconds.

### Switching to a Teletext page you want directly while watching a TV

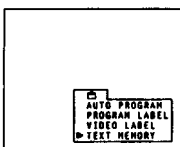
Using the menu, you can set teletext pages you want so that you can switch to the pages directly while watching a TV by pressing a color button.

### To set the page

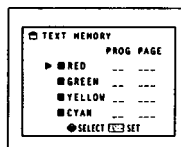
- 1 Press MENU.
- 2 Move the red cursor to "PRESET" using Δ or ▽, then press ENTER.



- 3 Move the red cursor to "TEXT MEMORY" using Δ or ▽, then press ENTER.



- 4 Move the red cursor to a color you want using Δ or ▽, then press ENTER.  
The colors correspond to the color of the buttons.



- 5 Press the program number button and press ENTER.  
For the program number 5, press "5".  
For the program number 25, press "2—" and "5".
- 6 Press the page number button of three digits and press ENTER.  
If you made a mistake, enter any three digits and then enter the correct three digits.  
If you want to cancel the operation, press "9" for the first digit.
- 7 Repeat steps 4 to 6 for other pages.
- 8 Press MENU to return to the TV display.

To view the page, press the color button of the page while watching the TV.

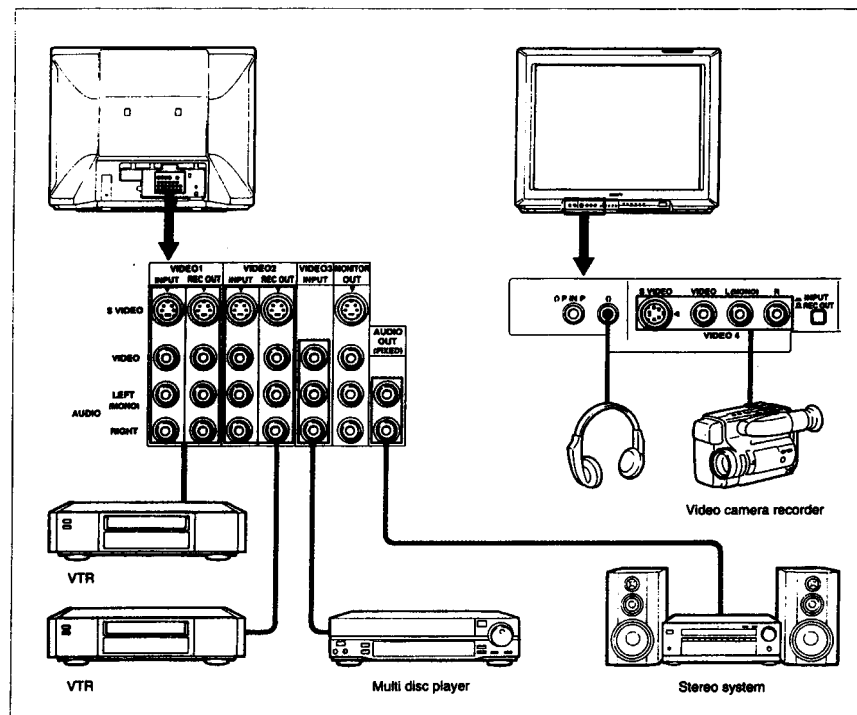
### Note

The color buttons function as the FAST TEXT buttons in Teletext mode.

## 1-10. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

You can connect optional audio/video equipment to this TV such as VTRs, multi disc players, and stereo systems.

After connection, select the video input and output (page 18).



**If the picture or the sound is distorted**  
Move the VTR away from the TV.

### S-video Input (Y/C Input)

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality. This TV is equipped with two S-video input jacks through which these separated signals can be input directly.

### Notes

- Only the PAL and NTSC signals can be input to the S-video jacks.
- The signals output from the S VIDEO REC OUT jacks are those input to the S VIDEO INPUT jacks. The signals input to the VIDEO jacks are not output from the S VIDEO REC OUT jacks.

### If both S-video and video signals are input

The S-video input signal is selected. To view a video signal, disconnect the S-video connection.

### When connecting a monaural VTR

Connect only the white L (mono) jack on the TV.

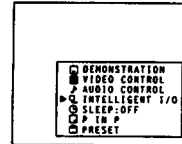
## 1-11. SELECTING INPUT AND OUTPUT

Using the INTELLIGENT I/O function, you can:

- record a source while watching the source.
- record a source while watching another source.
- record picture and sound from different sources.
- record a source while the TV is in standby mode.

### Setting the INTELLIGENT I/O

- 1 Press MENU.
- 2 Move the red cursor to "INTELLIGENT I/O" using  $\Delta$  or  $\nabla$ , then press ENTER.

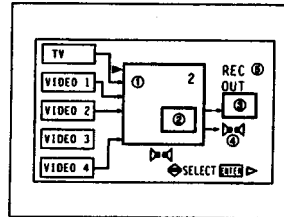


- 3 Select the item using  $\Delta$  or  $\nabla$ , then press ENTER.  
The color of the box or speaker mark becomes the color of the source selected.

- 1 Select the source to watch on the TV.
- 2 Select the source to be displayed on the P IN P screen.
- 3 Select the video to be recorded.
- 4 Select the sound to be recorded.
- 5 Make REC OUT in red or in white.

**Red:** The REC OUT FIX is on. The REC OUT FIX lamp lights. The recording source is fixed, therefore, even if you change the source to watch, the recording source does not change.

**White:** The REC OUT FIX is off. The REC OUT FIX lamp is off. The recording source changes accordingly when you change the source to watch.



- 4 Press MENU to go back to the normal TV picture.

**To change the program or video input after recording has started, or to turn off the TV (standby)**

- If you did not make "REC OUT" in red on the INTELLIGENT I/O page (the REC OUT FIX lamp is not lit), press REC OUT FIX on the Remote Commander.
- If you made "REC OUT" in red (the REC OUT FIX lamp is lit), you do not need any operation.

**When you set the INTELLIGENT I/O the next time**

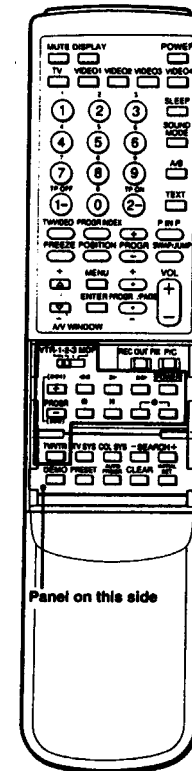
Make the "REC OUT" in white, if it is in red.

#### Notes

- After you started recording, do not turn off the TV by pressing the POWER switch on the TV. The recording stops.
- If you call the INTELLIGENT I/O page while watching the TV, the P IN P is displayed. To turn P IN P off, press P IN P.
- If you change TV program while recording a TV program, the newly selected TV program is recorded, even if you set the REC OUT FIX to on.

## 1-12. REMOTE CONTROL OF OTHER SONY EQUIPMENT

### Buttons for VTR operation



You can use the TV Remote Commander to control other remote-controlled video equipment such as: Beta, 8mm, VHS VTRs or multi disc players.

### Tuning the Remote Commander to the equipment

- 1 Set the VTR 1-2-3-MDP selector according to the equipment you want to control.

VTR 1: Beta or ED Beta VTR  
VTR 2: 8mm VTR  
VTR 3: VHS VTR  
MDP: Multi disc player

- 2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1-2-3-MDP selector on the TV Remote Commander.

If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

### When recording

When you use the  $\bullet$  (record) button, make sure to press these two buttons simultaneously.

## 1-13. TROUBLESHOOTING

If you have any problem, check the countermeasure for each symptoms listed below.  
If the problem persists, contact your nearest authorized service center or dealer.

| Symptom                                                                                                                                  | Countermeasure                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Snowy picture<br>Noisy sound<br>                        | <ul style="list-style-type: none"> <li>• Check the antenna.</li> <li>• Check the antenna connection on the TV and on the wall.</li> <li>• Check the DX/LOCAL switch. Set it to DX.</li> </ul> |
| Dotted lines or stripes<br>                             | This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.                                                             |
| Double images or "ghosts"<br>                           | This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.                                                                   |
| Good picture<br>Noisy sound<br>                         | <ul style="list-style-type: none"> <li>• Check the TV SYS setting.</li> </ul>                                                                                                                 |
| No picture<br>No sound<br>                              | <ul style="list-style-type: none"> <li>• Press POWER.</li> <li>• Check the antenna connection.</li> </ul>                                                                                     |
| Good picture<br>No sound<br>                            | <ul style="list-style-type: none"> <li>• Press VOLUME +.</li> <li>• Press MUTE.</li> </ul>                                                                                                    |
| No color<br>                                           | <ul style="list-style-type: none"> <li>• Check the COL SYS setting.</li> </ul>                                                                                                                |
| The picture disappears and the screen turns blue.<br> | The signal is too weak to be received properly. A highly directional antenna may improve the picture.                                                                                         |
| C-- appears when you press a program number.                                                                                             | Press P/C so that P-- appears. While P-- is on, press the program number.                                                                                                                     |

## 1-14. PREVENTING THE TV FROM FALLING

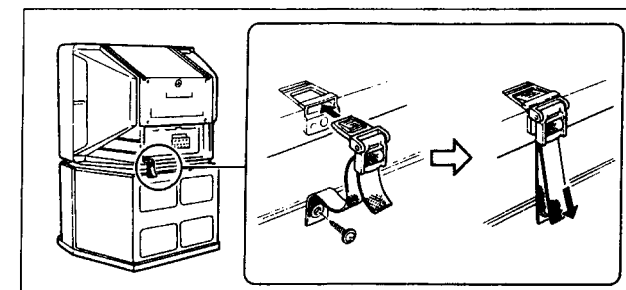
Because the front is heavier than the back, the TV may fall if it is not level, or a child pushes or climbs on it. To avoid such an accident, stabilize your TV using the supplied accessories.

### When you use the SU-S34 or SU-S29 AV rack (not supplied)

Stabilize the TV referring to the instructions of the rack.

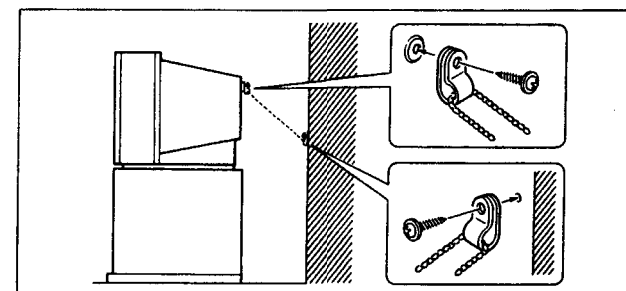
### When you use a TV stand other than the SU-S34 or SU-S29

Attach the supplied band to the TV stand using the supplied screw. Set the buckle into the slot and pull down the belt.



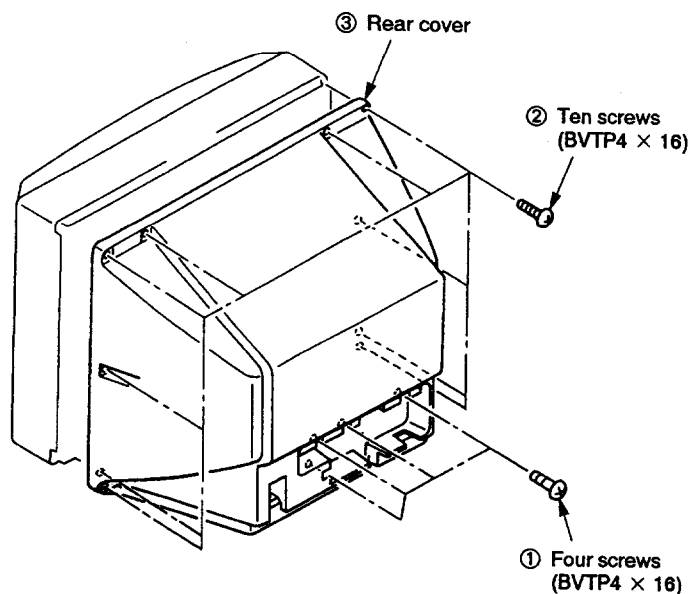
### When you stabilize the TV against a wall or pillar

Attach the supplied clamps to the hole on the rear of the TV and to the wall or pillar using the supplied screws. Pass a cord or chain with sufficient strength (not supplied) through the clamps.

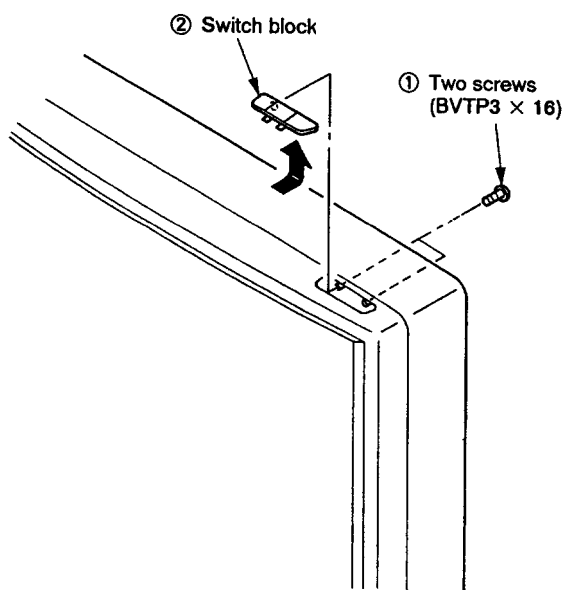


## SECTION 2 DISASSEMBLY

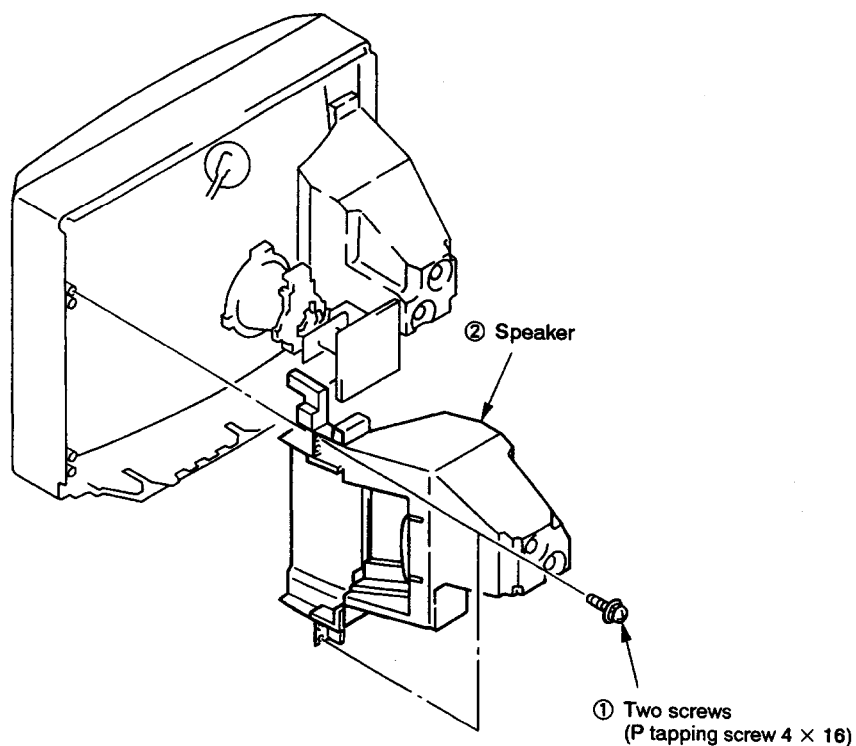
### 2-1. REAR COVER REMOVAL



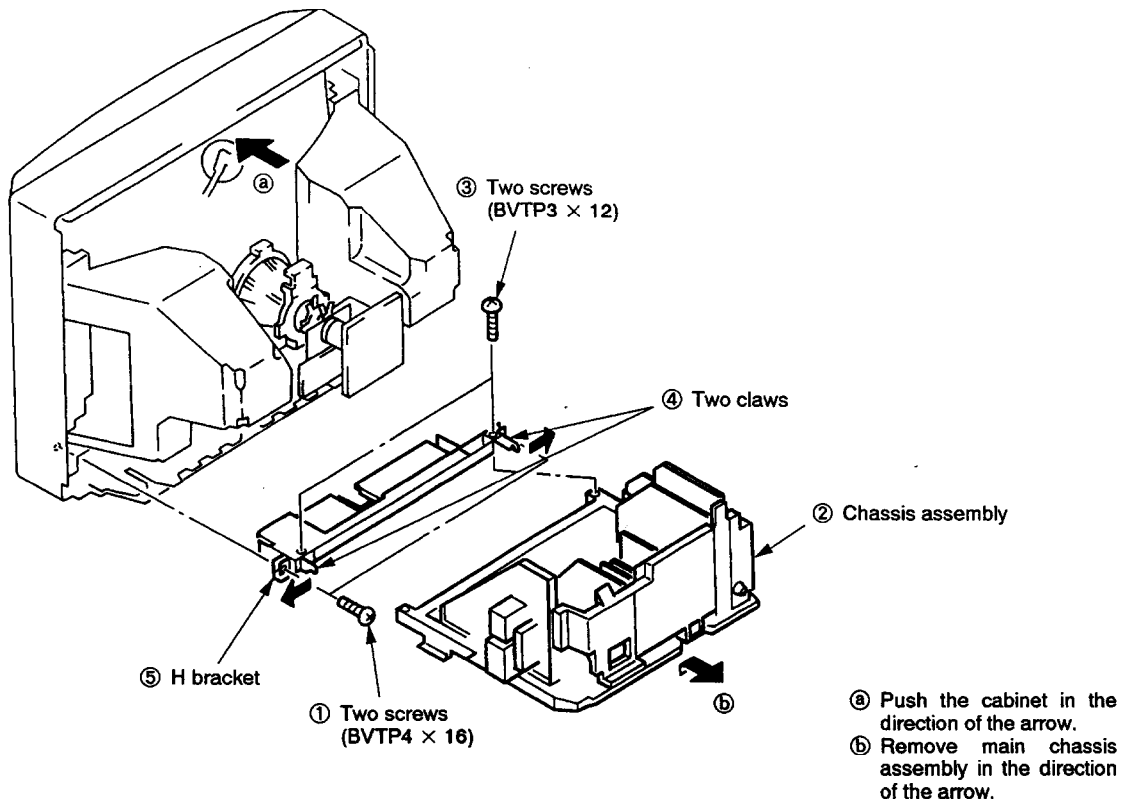
### 2-2. SWITCH BLOCK REMOVAL



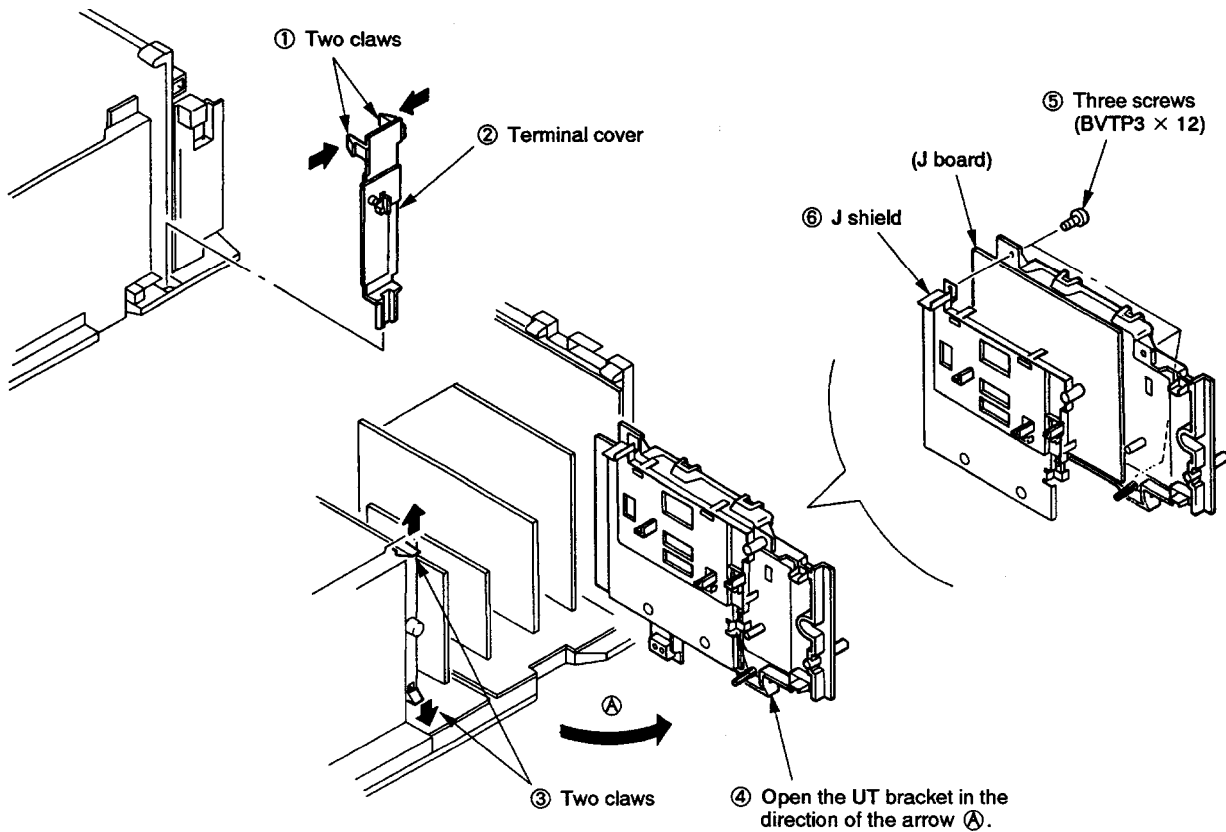
### 2-3. SPEAKER REMOVAL



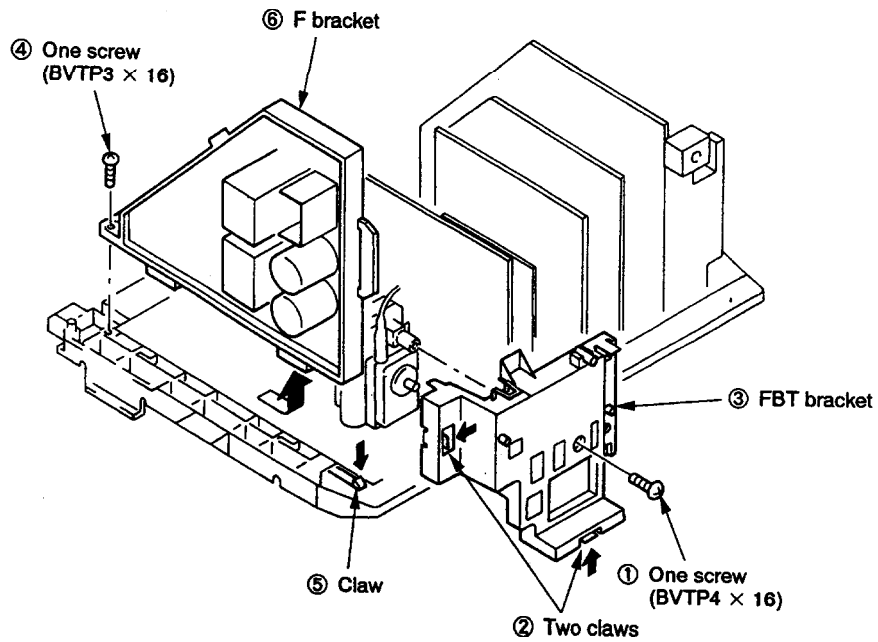
## 2-4. CHASSIS ASSEMBLY AND H BRACKET REMOVAL



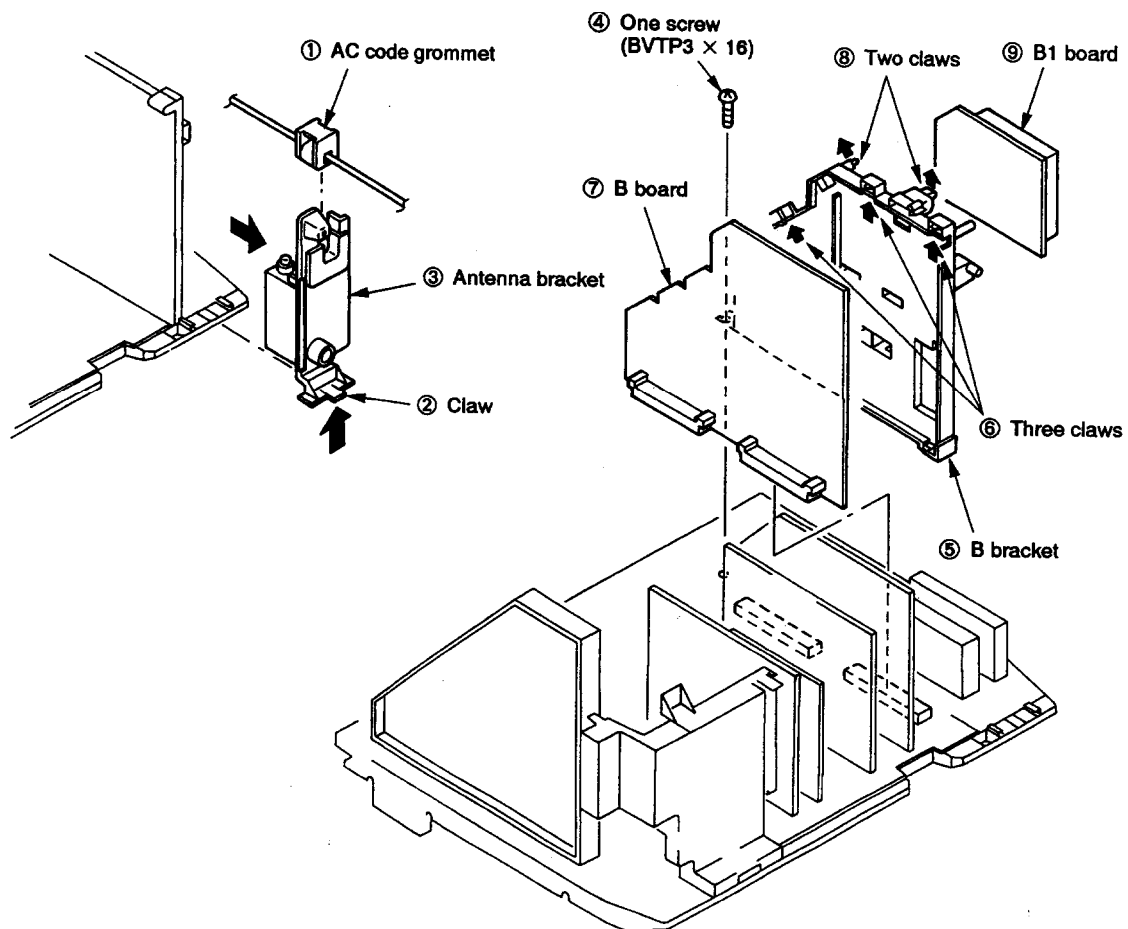
## 2-5. J BRACKET REMOVAL



## 2-6. F BRACKET REMOVAL

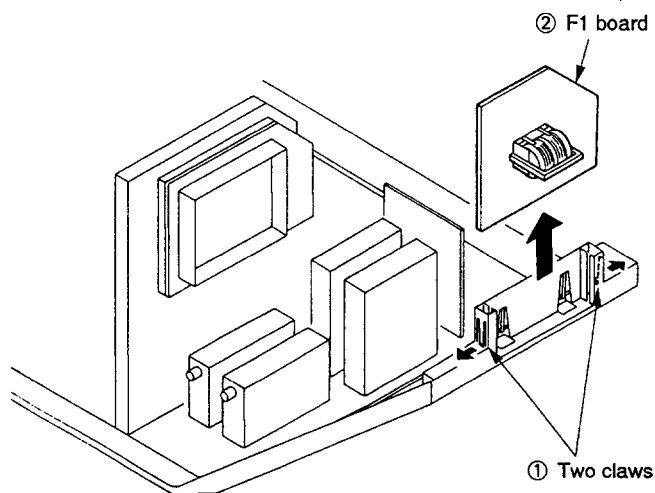


## 2-7. B AND B1 BOARDS REMOVAL

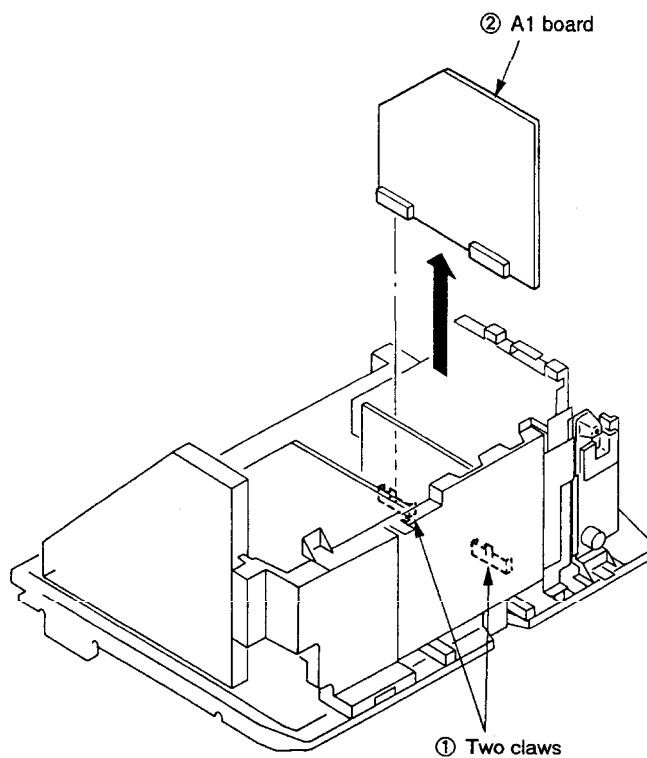




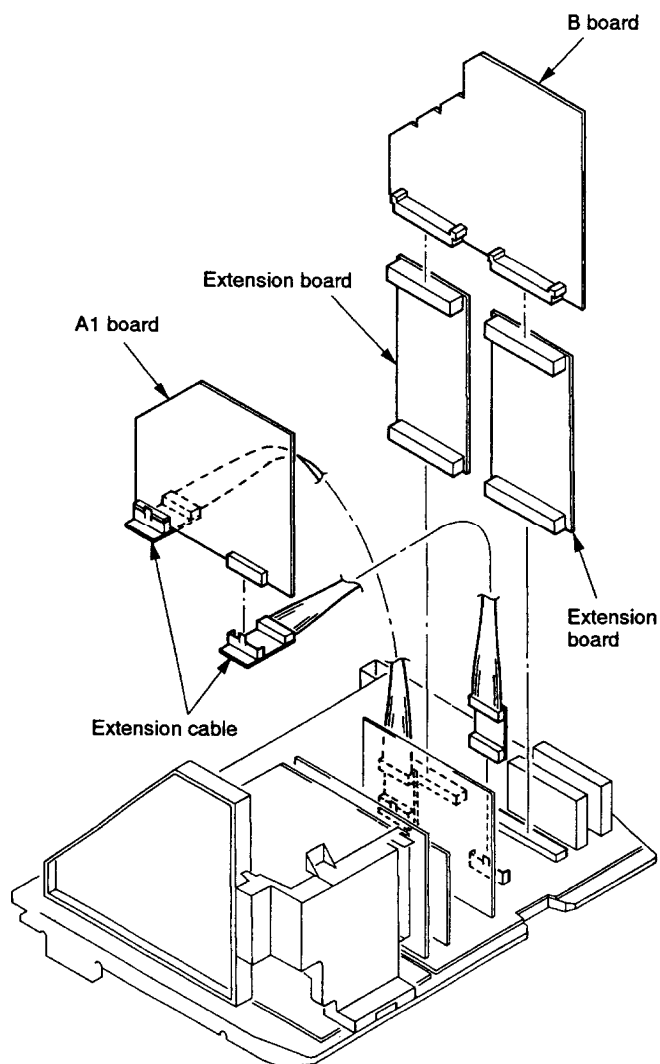
## 2-8. F1 BOARD REMOVAL



## 2-9. A1 BOARD REMOVAL



## 2-10. EXTENSION CABLE AND BOARD

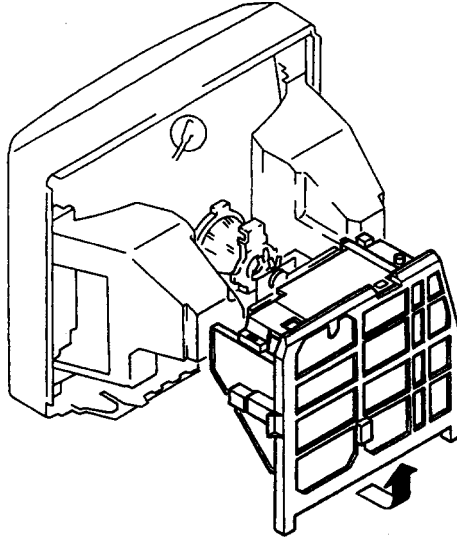


### • EXTENSION CABLES AND EXTENSION BOARDS LIST

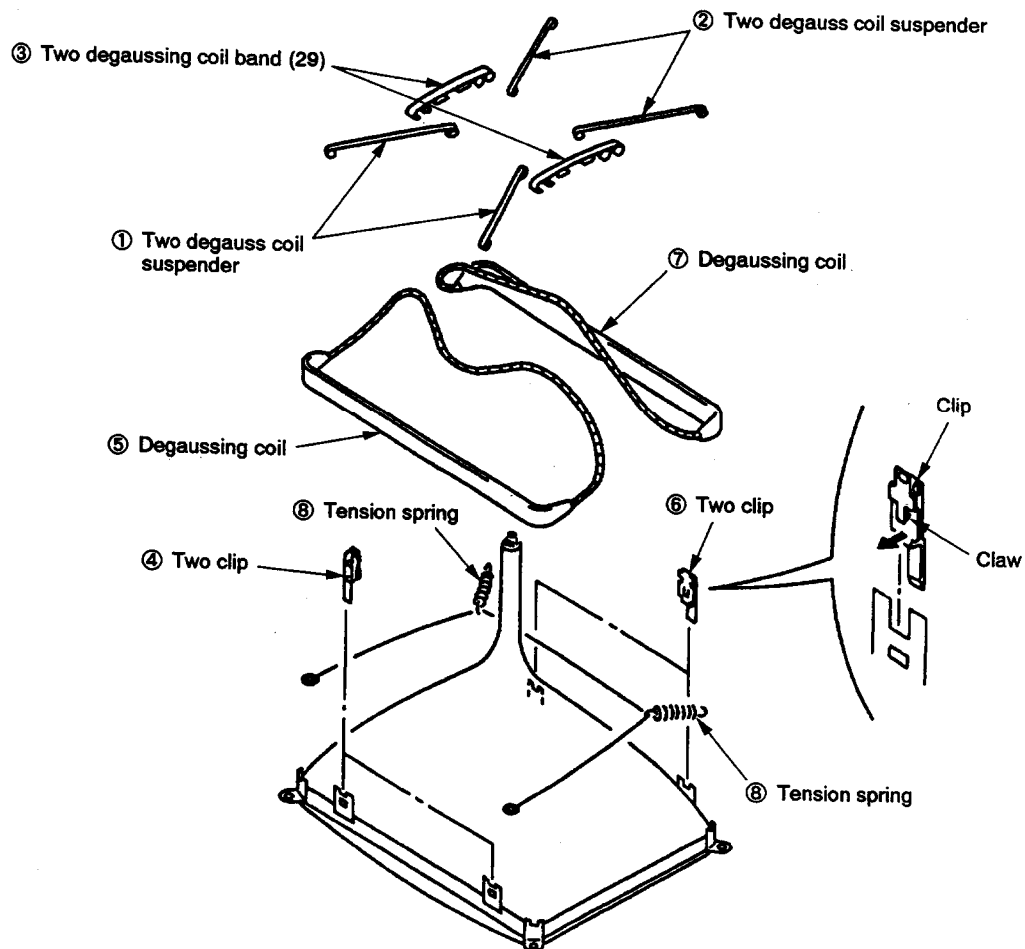
|          |              |     |   |
|----------|--------------|-----|---|
| B board  | 3-702-556-01 | 50P | 2 |
| V board  | 3-702-108-01 | 10P | 1 |
| A1 board | 3-702-564-01 | 11P | 2 |
| BP board | 3-702-564-01 | 11P | 1 |
|          | 3-702-565-01 | 15P | 1 |
| S board  | 3-702-565-01 | 15P | 1 |
| D1 board | 3-702-563-01 | 10P | 2 |
| VC board | 3-702-563-01 | 10P | 1 |

## 2-11. SERVICE POSITION

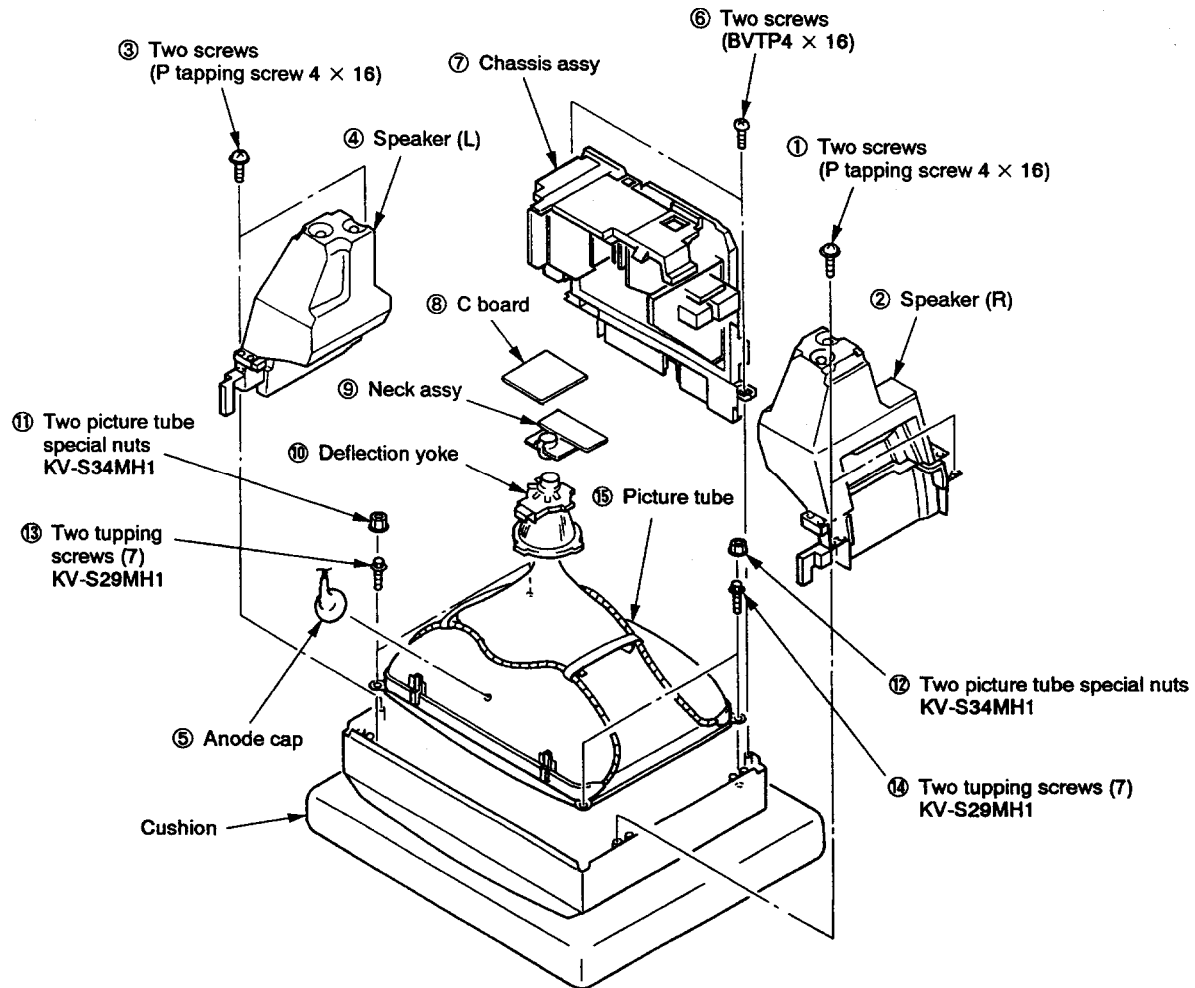
- ※ Remove the H bracket from the main chassis assy and then perform the following servicing.  
(Refer to 2-4. CHASSIS ASSY AND H BRACKET REMOVAL)



## 2-12. DEGAUSSING COIL REMOVAL



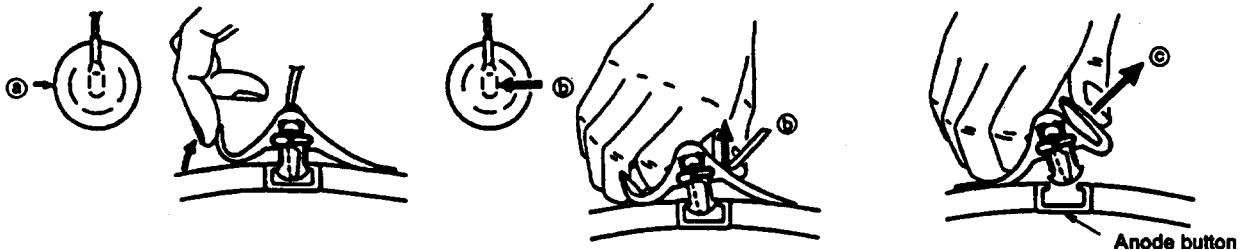
## 2-13. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

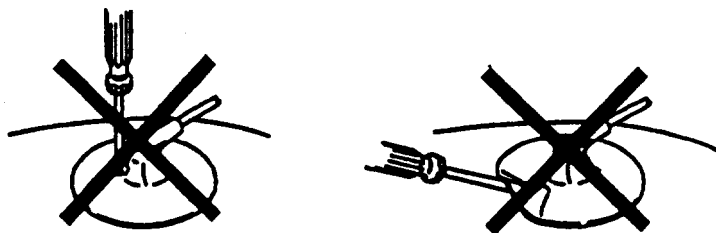
### • REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
  - ⊙ Contrast ..... 80% (or remote control normal)
  - ⊙ Brightness ..... 50%

#### Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

#### 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
  - Contrast } normal
  - Brightness }
2. Position neck assy as shown in Fig.3-3.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1, 3-2, 3-4)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-5)

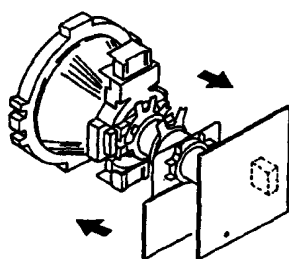


Fig.3-1

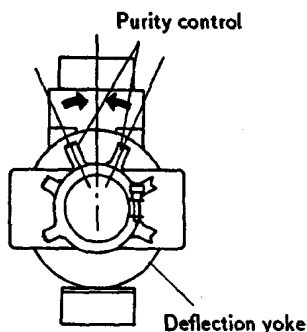


Fig.3-2

- Carry out the following adjustments in this order :
  1. Beam landing
  2. Convergence
  3. Focus
  4. White balance

**Note:** Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Fig.3-3

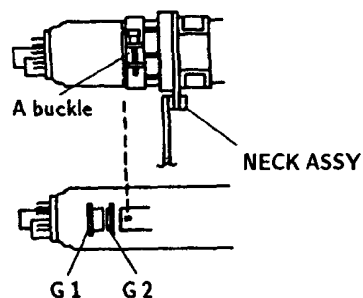


Fig.3-4

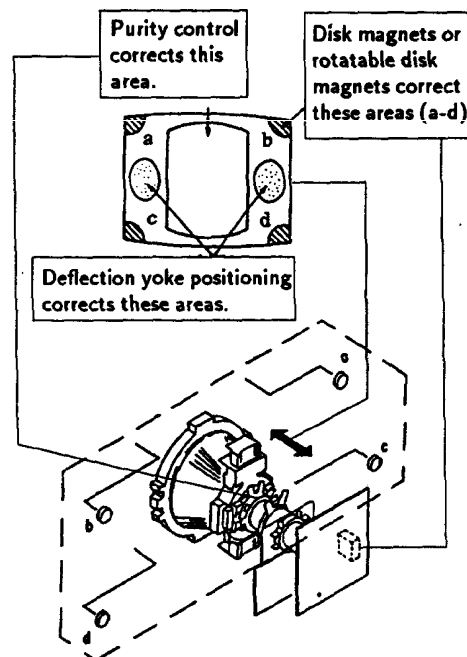
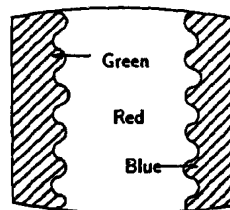


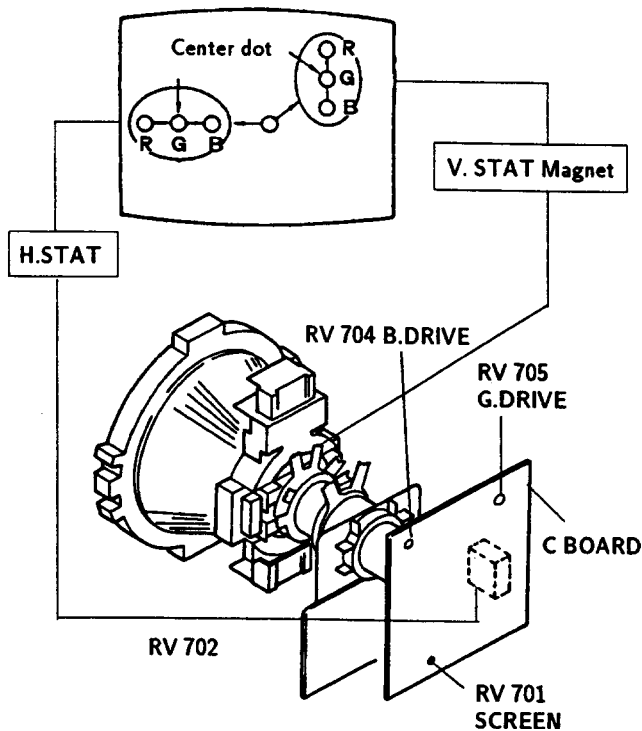
Fig.3-5

### 3-2. CONVERGENCE

#### Preparations :

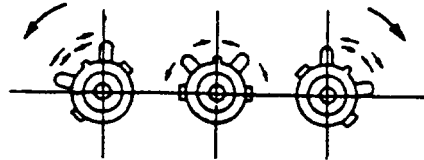
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and vertical static convergence

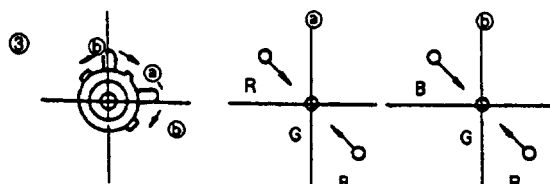
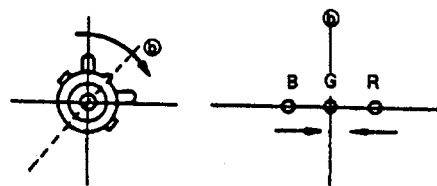
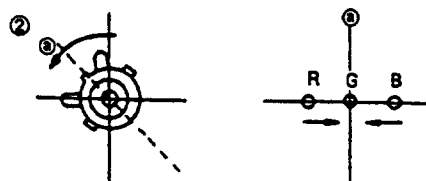
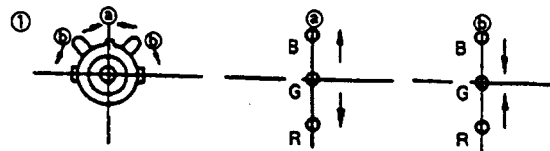


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.  
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

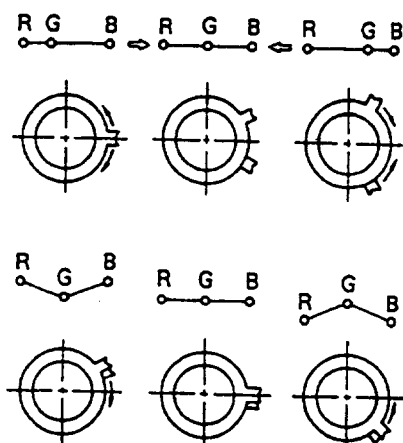
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the ② and ③ arrows, the red, green, and blue points move as shown below.

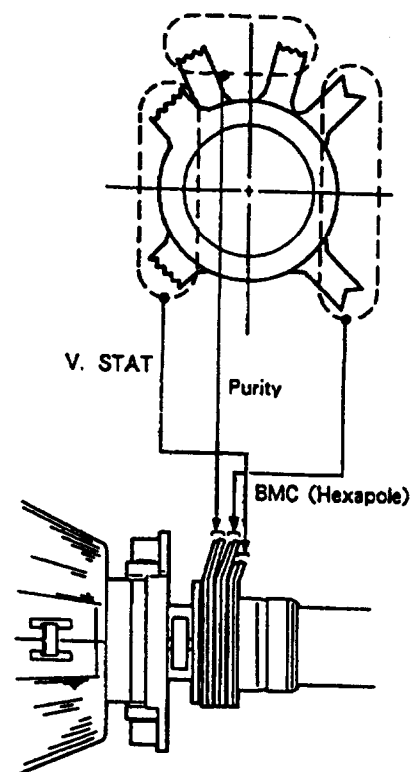


● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

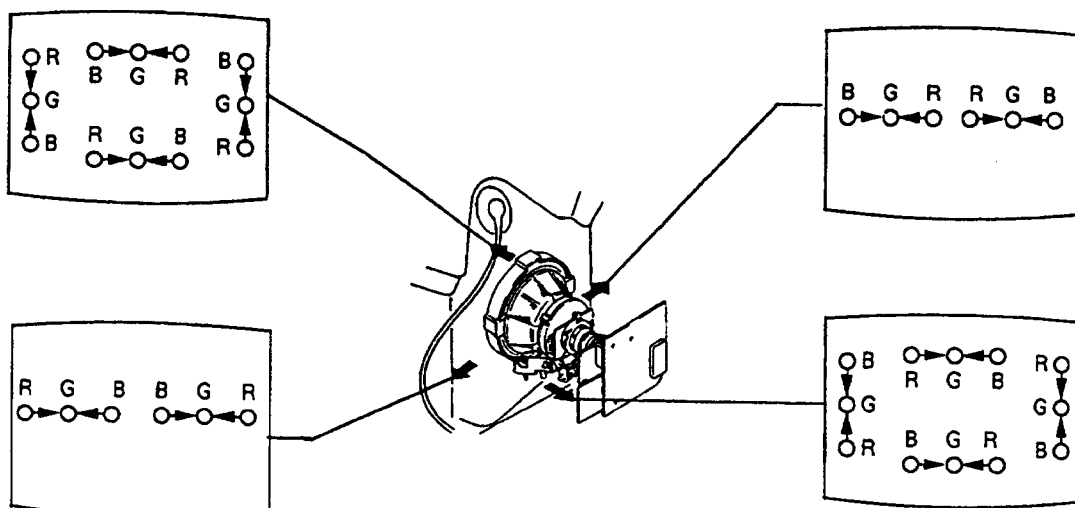


(2) Dynamic convergence adjustment

Preparations :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.

2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



**(3)Dynamic convergence adjustment**

1. Adjust horizontal convergence located at the center position of the screen with H STAT VR.
2. Dynamic convergence adjustments are made with the RM-821 that comes with this unit.

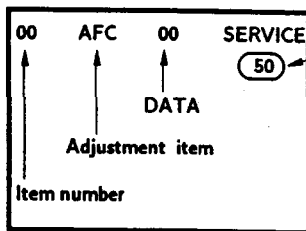
**Entering service mode**

With the unit on standby

↓  
"DISPLAY"  
↓  
"5"  
↓  
"VOL(+)"  
↓  
"POWER"

This operation sequence puts the unit into service mode.

The screen display is :



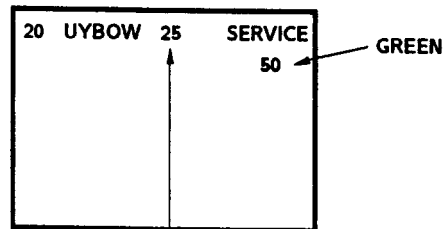
Depens on the signals.  
PAL, SECAM : 50  
NTSC : 60

"1", "4" Raise/lower the service item number  
"3", "6" Raise/lower the data  
"MUTE" Writes  
"0" Executes the writing

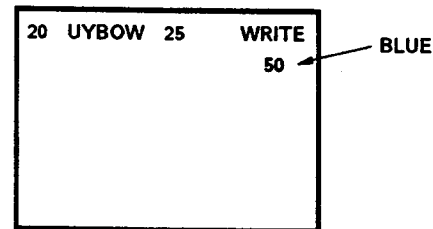
**Item Number 20**

This explanation uses UYBOW as an example.

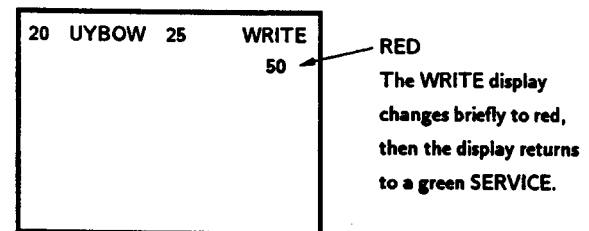
1. Select 20 UYBOW with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum stste.
4. Write with the MUTE button. (The display changes to blue WRITE.)
5. Execute the writing with the "0" button. (The WRITE display changes briefly to red.)



Adjusted with "3" and "6" buttons



Written with "MUTE"



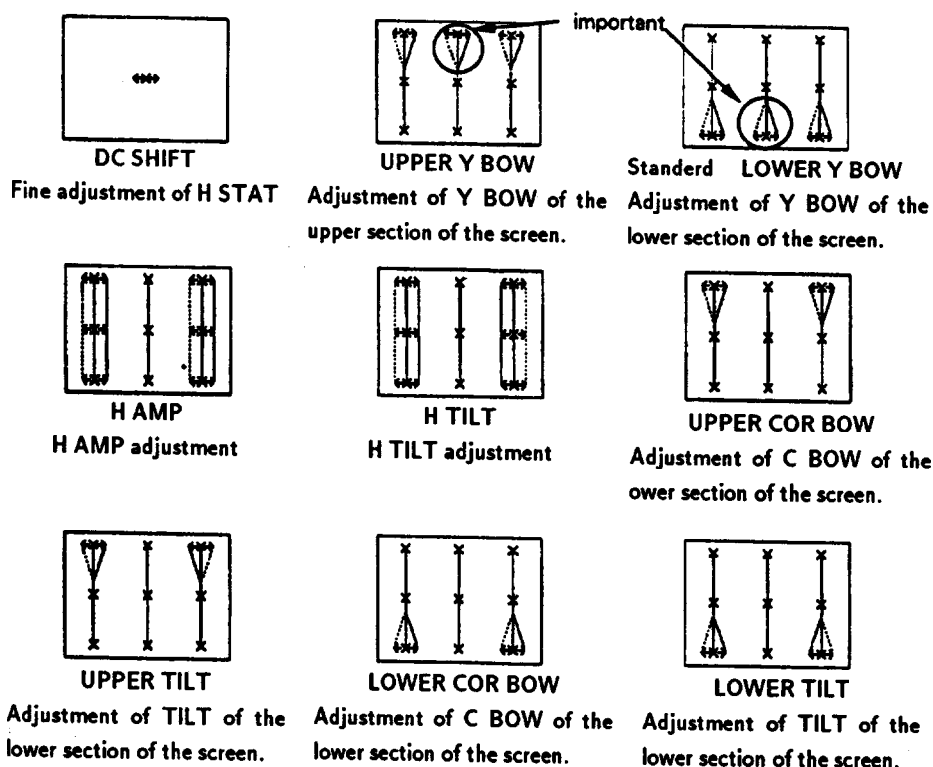
The WRITE display changes briefly to red, then the display returns to a green SERVICE.

Write excuted with "0"

"1", "4" Select the adjustment item.  
↓  
"3", "6" Raise/lower the data.  
↓  
"MUTE" Writes.  
↓  
"0" Executes the writing.

| LABSAL | Display | Standard |     | 50/60 | Remarks             |
|--------|---------|----------|-----|-------|---------------------|
|        |         | 50       | 60  |       |                     |
| 19     | DSHFT   | 0 C      | 0 C | o     | DC SHIFT (CXA 1526) |
| 20     | UYBOW   | 25       | 25  | o     | U.Y.BOW (CXA 1526)  |
| 21     | LYBOW   | 25       | 25  | o     | L.Y.BOW (CXA 1526)  |
| 22     | H.AMP   | 1 F      | 1 F | o     | H.AMP (CXA 1526)    |
| 23     | H.TILT  | 1 F      | 1 F | o     | H.TILT (CXA 1526)   |
| 24     | UCBOW   | 1 F      | 1 F | o     | U.C.BOW (CXA 1526)  |
| 25     | UTILT   | 1 F      | 1 F | o     | U.TILT (CXA 1526)   |
| 26     | LCBOU   | 1 F      | 1 F | o     | L.C.BOW (CXA 1526)  |
| 27     | LTILT   | 1 F      | 1 F | o     | L.TILT (CXA 1526)   |

R.G.B.dots movement on the screen of the set



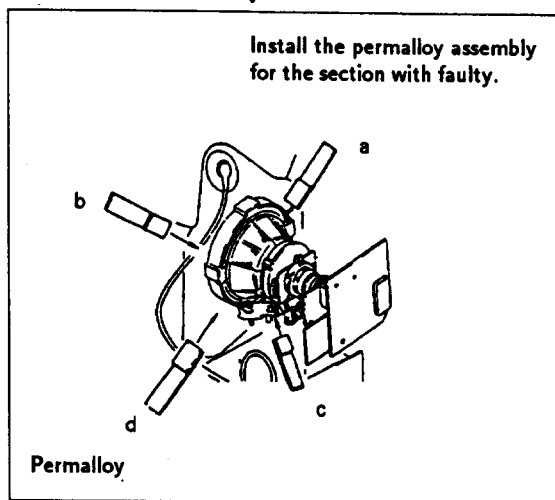
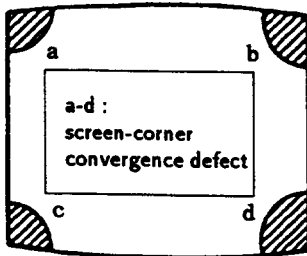
At this time, H.TILT, H.AMP, UPPER TILT, UPPER COR, BOW, LOWER TILT, and LOWER COR, BOW look like all the same, but the movement of the

right and left dots are reverse in all the TILT system. (Pay attention to the dotted lines.)

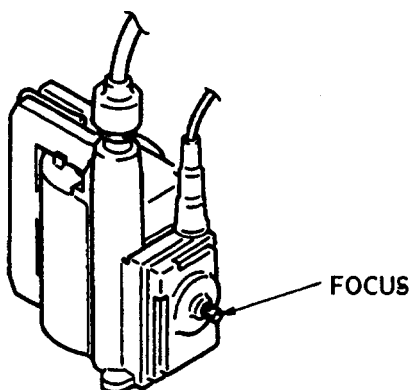


**(4) Screen corner convergence**

If you cannot adjust corner convergence properly, correct them with permalloy.

**3-3. FOCUS**

Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****[ Screen G 2 Setting ]**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 175 V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

**[ White balance adjustment ]**

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV 704 (B Drive) and RV 703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

## SECTION 4

### CIRCUIT ADJUSTMENTS

#### 4-1. ADJUSTMENTS WITH COMMANDER

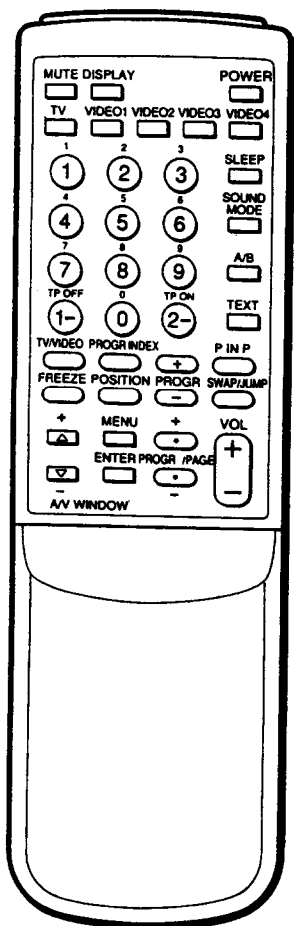
Service adjustments are made with the RM-821 that comes with this unit.

##### Entering service mode

With the unit on standby

↓  
"DISPLAY"  
↓  
"5"  
↓  
"VOL (+)"  
↓  
"POWER"

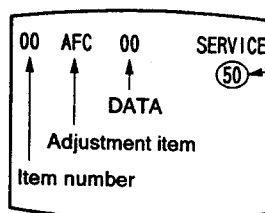
This operation sequence puts the unit into service mode.



"1", "4" Raise/lower the service item number  
"3", "6" Raise/lower the data  
"MUTE" Writes  
"0" Executes the writing

"7", "0" The data all becomes the values in memory  
"8", "0" User control all goes to the standard state  
"9" H-FRE automatic adjustment  
"5", "0" Service data initialization (Besure not to use usually.)  
"2", "0" Write 50 Hz adjustment data to 60 Hz, or in opposition.

The screen display is:



Depens on the signals.  
PAL, SECAM : 50  
NTSC : 60

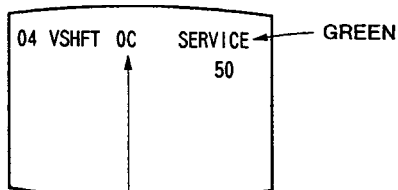
"1", "4" Select the adjustment item.  
↓  
"3", "6" Raise/lower the data.  
↓  
"MUTE" Writes.  
↓  
"0" Executes the writing.

## 4-2. ADJUSTMENT METHOD

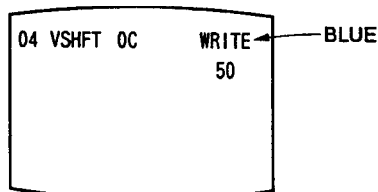
Item Number 04

This explanation uses VSHFT as an example.

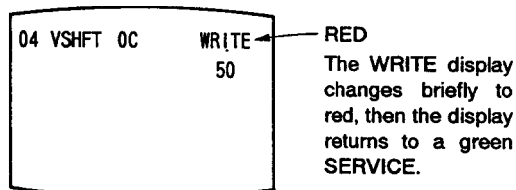
1. Select 04 VSHFT with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum state. (The standard is for OF PAL reception.)
4. Write with the MUTE button. (The display changes to blue WRITE.)
5. Execute the writing with the "0" button. (The WRITE display changes briefly to red.)



Adjusted with "3" and "6" buttons



Written with "MUTE"



Write executed with "0"

Use the same method for Items Number 00 – 50. Use "1" and "4" to select the adjustment item, use "3" and "6" to adjust, write with "MUTE", then execute the write with "0".

**Note:** In "WRITE", the data of all items are wrote together to memory.

- H-FRE can be adjusted automatically. Feed a standard signal and input "9", the automatic adjustment is executed.
- As for VFREQ, by searching the bolded screen V range with adjusting data.

**Note:** In item 02 50 Hz, or item 03 60 Hz, it operates normally in spite of the 50 Hz or the 60 Hz of the input signal. Therefore be suure to adjust data according to the input signal.

| Label | Display | Data range | Standard *1 |       | 50/60 *2 | Remarks                                           |
|-------|---------|------------|-------------|-------|----------|---------------------------------------------------|
|       |         |            | 50 Hz       | 60 Hz |          |                                                   |
| 00    | AFC     | 00 ~ 03    | 00          | 00    | ○        | AFC SWITCH (03 : Free run) (CXA1464)              |
| 01    | H-FRE   | 00 ~ 7F    | 45          | 40    | ○        | H FREQUENCY (CXA1464)                             |
| 02    | VFR50   | 00 ~ 1F    | 0F          | ×     | ×        | V FREQUENCY 50 (CXA1464)                          |
| 03    | VFR60   | 00 ~ 1F    | ×           | 0F    | ×        | V FREQUENCY 60 (CXA1464)                          |
| 04    | VSHFT   | 00 ~ 1F    | 0C          | 0C    | ○        | V SHIFT (CXA1464)                                 |
| 05    | VSIZE   | 00 ~ 3F    | 26          | 27    | ○        | V SIZE (CXA1464)                                  |
| 06    | V-LIN   | 00 ~ 0F    | 07          | 07    | ○        | V LINEARITY (CXA1464)                             |
| 07    | VSCOR   | 00 ~ 0F    | 07          | 07    | ○        | V S correction (CXA1464)                          |
| 08    | H-PHA   | 00 ~ 0F    | 03          | 05    | ○        | H CENTER (CXA1464)                                |
| 09    | HSIZE   | 00 ~ 1F    | 12          | 12    | ○        | H SIZE (CXA1464)                                  |
| 10    | PINAM   | 00 ~ 1F    | 12          | 12    | ○        | PIN AMP (CXA1464)                                 |
| 11    | CORPN   | 00 ~ 07    | 04          | 04    | ○        | CORNER PIN (CXA1464)                              |
| 12    | PIN-P   | 00 ~ 0F    | 09          | 08    | ○        | PIN PHASE (CXA1464)                               |
| 13    | Y-BOW   | 00 ~ 3F    | 24          | 24    | ○        | Y BOW (CXA1315-7)                                 |
| 14    | V-ANG   | 00 ~ 3F    | 23          | 23    | ○        | V ANGLE (CXA1315-7)                               |
| 15    | H-TRP   | 00 ~ 3F    | 1F          | 1F    | ○        | H TRPZ (CXA1315-7)                                |
| 16    | VCOMP   | 00 ~ 07    | 03          | 03    | ○        | V zooming correction (CXA1464)                    |
| 17    | VSM50   | 00 ~ 01    | 00          | ×     | ×        | V lock range switch 50 (CXA1464)                  |
| 18    | VSM60   | 00 ~ 01    | ×           | 00    | ×        | V lock range switch 60 (CXA1464)                  |
| 19    | DSHFT   | 00 ~ 3F    | 0C          | 0C    | ○        | DC SHIFT (CXA1526)                                |
| 20    | UYBOW   | 00 ~ 3F    | 25          | 25    | ○        | U.Y. BOW (CXA1526)                                |
| 21    | LYBOW   | 00 ~ 3F    | 25          | 25    | ○        | L.Y. BOW (CXA1526)                                |
| 22    | H.AMP   | 00 ~ 3F    | 1F          | 1F    | ○        | H.AMP (CXA1526)                                   |
| 23    | HTILT   | 00 ~ 3F    | 1F          | 1F    | ○        | H.TILT (CXA1526)                                  |
| 24    | UCBOW   | 00 ~ 3F    | 1F          | 1F    | ○        | U.C. BOW (CXA1526)                                |
| 25    | UTILT   | 00 ~ 3F    | 1F          | 1F    | ○        | U.TILT (CXA1526)                                  |
| 26    | LCBOW   | 00 ~ 3F    | 1F          | 1F    | ○        | L.C. BOW (CXA1526)                                |
| 27    | LTILT   | 00 ~ 3F    | 1F          | 1F    | ○        | L.TILT (CXA1526)                                  |
| 28    | SBPIC   | 00 ~ 1F    |             | 0D    | ×        | SUB PICTURE $\mu$ C main unit                     |
| 29    | SBHUE   | 00 ~ 1F    |             | 0D    | ×        | SUB HUE $\mu$ C main unit                         |
| 30    | SBCOL   | 00 ~ 1F    |             | 0D    | ×        | SUB COLOR $\mu$ C main unit                       |
| 31    | SBBRT   | 00 ~ 1F    |             | 0D    | ×        | SUB BRIGHTNESS $\mu$ C main unit                  |
| 32    | SBSHP   | 00 ~ 1F    |             | ※     | ×        | SUB SHARPNESS $\mu$ C main unit                   |
| 33    | SBBAL   | 00 ~ 1F    |             | 0D    | ×        | SUB BALANCE $\mu$ C main unit                     |
| 34    | VM      | 00 ~ 01    |             | 0     | ×        | VM function ON/OFF                                |
| 35    | M-DSP   | 00 ~ 3F    |             | 35    | ×        | Main screen display position horizontal direction |
| 36    | S-DSP   | 00 ~ 3F    |             | 0E    | ×        | PinP screen display position horizontal direction |
| 37    | PIP-H   | 00 ~ 3F    | 20          | 20    | ○        | PinP H position correction (SDA9089)              |
| 38    | PIP-V   | 00 ~ 0F    | 08          | 08    | ○        | PinP V position correction (SDA9089)              |
| 39    | PIP-L   | 00 ~ 0F    |             | ※     | ×        | PinP out level (SDA9089)                          |
| 40    | PIP-C   | 00 ~ 07    |             | 04    | ×        | PinP frame color (SDA9089)                        |
| 41    | PIP-D   | 00 ~ 07    | 00          | 00    | ○        | PinP delay (SDA9089)                              |
| 42    | PIPVs   | 00 ~ 07    | 04          | 04    | ○        | PinP V correction (SDA9089)                       |
| 43    | PIPHs   | 00 ~ 0F    | 07          | 04    | ○        | PinP H correction (SDA9089)                       |
| 44    | TXPIC   | 00 ~ 0F    |             | 05    | ×        | Text picture                                      |
| 45    | BLUE    | 00 ~ 01    |             | 1     | ×        | No-signal blue back YES/NO                        |
| 46    | OSDOE   | 00 ~ 01    |             | 0     | ×        | CRT screen display odd/even inversion setting     |
| 47    | OSD-V   | 00 ~ 1F    |             | 0F    | ×        | V CRT screen display start position               |
| 48    | DEGAU   | 00 ~ 01    |             | ※     | ×        | Degauss function ON/OFF                           |
| 49    | ONDLY   | 00 ~ FF    |             | 80    | ×        | Power on delay time                               |
| 50    | MUTE    | 00 ~ 01    |             | 01    | ×        | No-signal sound mute YES/NO                       |

\*1 50 : PAL input signal standard

60 : NTSC input signal standard

\*2 Items marked ○ are different for 50 and 60; those marked × are common to 50 and 60.

- Notes:**
- 08 H-PHA is adjusted with data 00 ~ 07.
  - 34 VM does not function.
  - 46 OSDOE is set to 0.
  - 48 DEGAU is set to 1.
  - 49 ONDLY is set to 80.
  - 39 PIP-L is set to 01 for M37204M8-A10SP (M M't IC 005)  
08 for M37204M8-xxx
  - 50 MUTE can not be selected for M37204M8-A10SP
  - 32 SBSHP is set to 03 for M37204M8-A10SP  
0D for M37204M8-xxx

### 4-3. PICTURE QUALITY ADJUSTMENTS

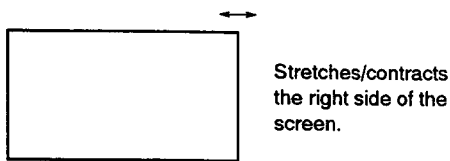
Item Numbers 28 – 33

|       |                                                                       |
|-------|-----------------------------------------------------------------------|
| SBPIC | When it is out of order in the user 50% condition, be sure to adjust. |
| SBHUE |                                                                       |
| SBCOL |                                                                       |
| SBBRT |                                                                       |
| SBSHP | Set to the standard values.                                           |
| SBBAL |                                                                       |

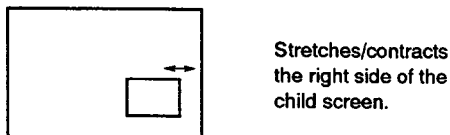
### 4-4. DISPLAY POSITION ADJUSTMENT

Item Numbers 35 – 43

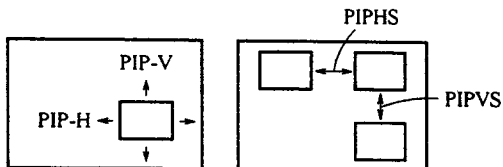
35 M-DSP Main screen display position, horizontal



36 S-DSP PinP screen display position



- 37 PIP-H Pin-P horizontal position correction
- 38 PIP-V Pin-P vertical position correction
- 42 PIPVS Pin-P vertical correction
- 43 PIPHS Pin-P horizontal correction



- When pressing PIP "POSITION" key in the service mode, "POSITION" turns round and round automatically.

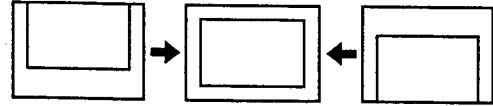
Item Numbers 39 – 41 and 47 are set to the standard values.

- 44 TXPIC Text picture  
Corrects the brightness for when teletext is received.  
Standard value is 05.

### 4-5. PICTURE DISTORTION ADJUSTMENT

Item Numbers 04 – 18

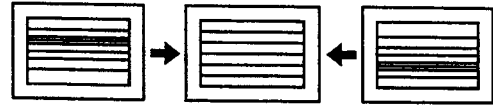
04 VSHFT (V SHIFT)



05 VSIZE (V SIZE)



06 V-LIN (V LINEARITY)



07 VSCOR (VERTICAL S correction)



08 H-PHA (H CENTER)



09 HSIZE (H SIZE)



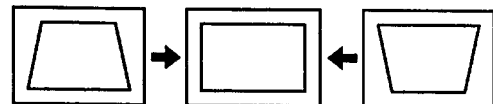
10 PINAM (PIN AMP)



11 CORPN (CORNER PIN)



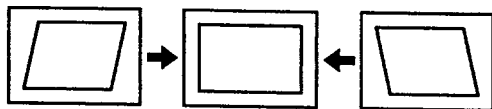
12 PIN-P (PIN PHASE)



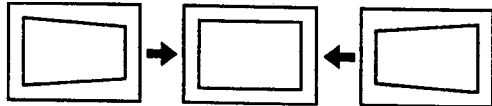
13 Y-BOW (Y BOW)



14 V-ANG (V ANGLE)



15 H-TRP (H TRPZ)



16 VCOMP (Vertical zooming correction)

The vertical size correction data for when the screen is bright and the screen is dark is set to the standard value of 03.

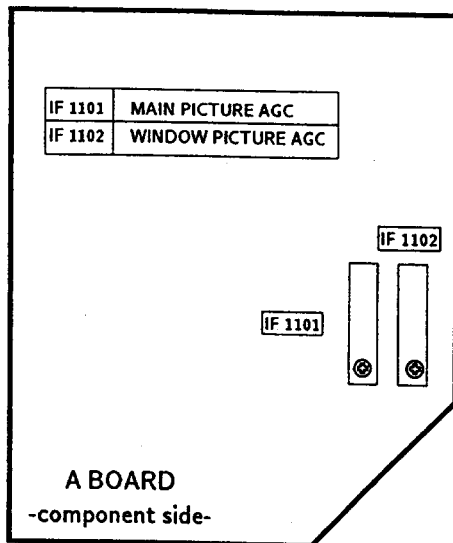
17 VSM50 (Vertical lock range switch 50)

The data is set to the standard value of 00.

18 VSM60 (Vertical lock range switch 60)

The data is set to the standard value of 00.

## 4-6. A BOARD ADJUSTMENTS

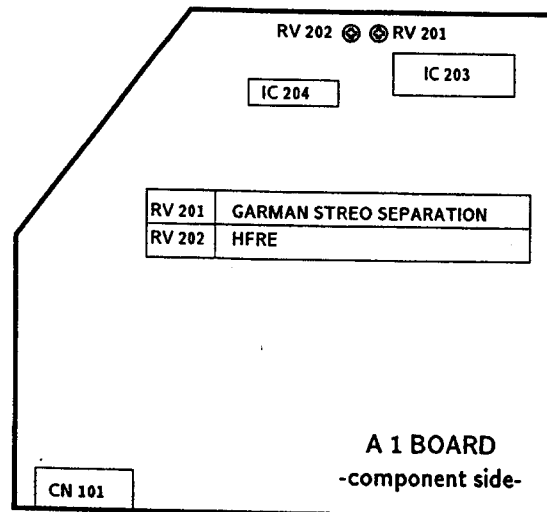
**Main screen AGC adjustment (IF1101)**

1. Receive an off-air signal.
2. Adjust the IF1101 RF AGC VR so that there is no snow noise or cross-modulation.
3. Switch the channel and verify the adjustment.

**PinP screen AGC adjustment (IF1102)**

1. Receive an off-air signal.
2. Adjust the IF1102 RF AGC VR so that there is no snow noise or cross-modulation.
3. Switch the channel and verify the adjustment.

## 4-7. A1 BOARD ADJUSTMENTS

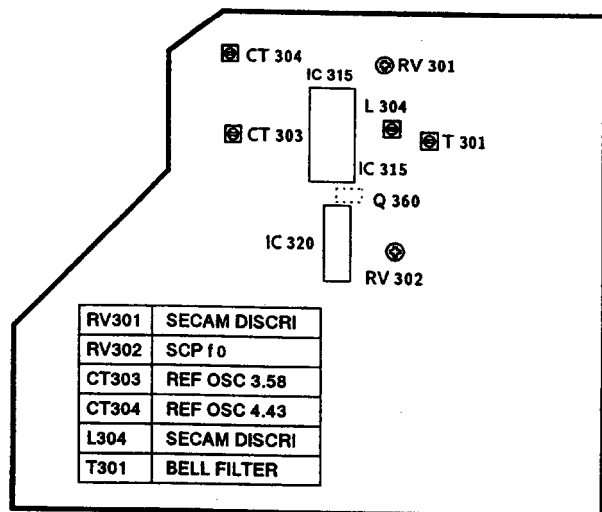
**German stereo separation adjustment (RV201)**

1. Input a 400 Hz signal to the left and a 1 kHz signal to the right.
2. Connect an oscilloscope to Pins ⑧ and ⑨ of CN101.
3. Adjust RV201 so that a 400Hz sine wave is output from Pin ⑧ and a 1 kHz sin wave is output from Pin ⑨.

**Horizontal frequency adjustment (RV202)**

1. Connect Pin ⑫ of IC204 to ground.
2. Receive a PAL color bar signal.
3. Connect a frequency counter to Pin ⑬ of IC203.
4. Adjust RV202 for a frequency of  $15625 \pm 50$  Hz.
5. Remove the ground from Pin ⑫ of IC204.

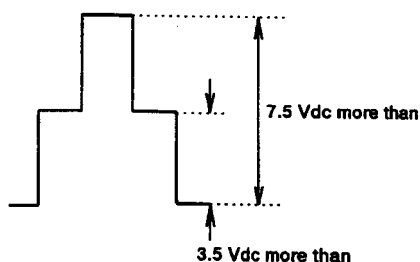
#### 4-8. B BOARD ADJUSTMENTS



**B BOARD (MAIN PICTURE)**  
-component side-

##### SCP f<sub>0</sub> adjustment (RV302)

1. Connect Pin ⑫ of IC320 to ground.
2. Connect a frequency counter to Pin ④ of IC320.
3. Adjust RV302 for a frequency of 15.625 kHz.
4. Check that the SCP pulse is output at Pin ⑥ of IC320.



5. Remove the ground from Pin ⑫ of IC320.

##### Reference oscillation adjustment (CT304)

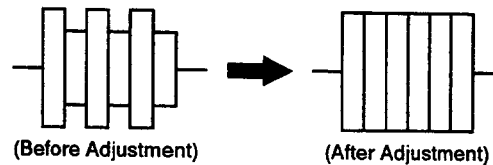
1. Connect Pin ⑮ of IC315 to ground.
2. Input a PAL color bar signal.
3. Adjust CT304 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑮ of IC315.

##### Reference oscillation adjustment (CT303)

1. Connect Pin ⑮ of IC315 to ground.
2. Input a 3.58 NTSC color bar signal.
3. Adjust CT303 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑮ of IC315.

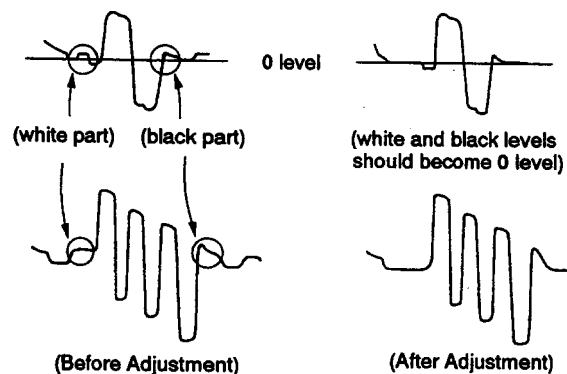
##### Bell filter adjustment (T301)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to the emitter of Q360.
3. Adjust T301 so that the waveform is flat.



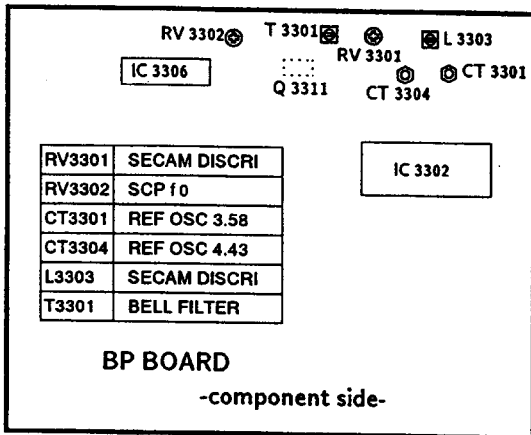
##### SECAM DISCRI adjustment (RV301, L304)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to Pin ① of IC315.
3. Adjust RV301 so that the sections corresponding to white and black are at 0 level.
4. Connect the oscilloscope to Pin ③ of IC315.
5. Adjust L304 so that the sections corresponding to white and black are at 0 level.
6. Carry out the 2 - 5 tracking.



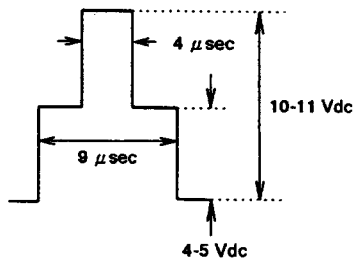


#### 4-9. BP BOARD ADJUSTMENTS (PinP screen)



##### SCP f<sub>0</sub> adjustment (RV3302)

1. Connect Pin ⑫ of IC3306 to ground.
2. Connect a frequency counter to Pin ④ of IC3306.
3. Adjust RV3302 for 15.625 kHz.
4. Check that the SCP pulse is output at Pin ⑥ of IC3306.



5. Remove the ground from Pin ⑫ of IC3306.

##### Reference oscillation adjustment (CT3304)

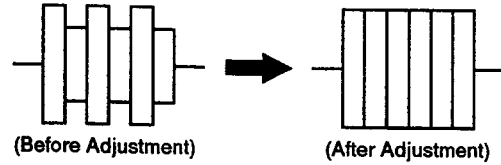
1. Connect Pin ⑰ of IC3302 to ground.
2. Input a PAL color bar signal to the PinP screen.
3. Adjust CT3304 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑰ of IC3302.

##### Reference oscillation adjustment (CT3301)

1. Connect Pin ⑰ of IC3302 to ground.
2. Input a 3.58 NTSC color bar signal.
3. Adjust CT3301 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑰ of IC3302.

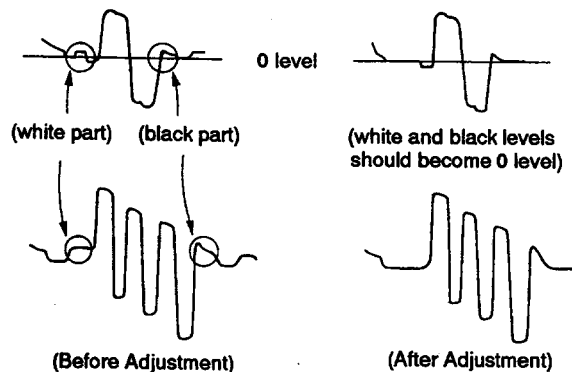
##### Bell filter adjustment (T3301)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to the emitter of Q3311.
3. Adjust T3301 so that the waveform is flat.

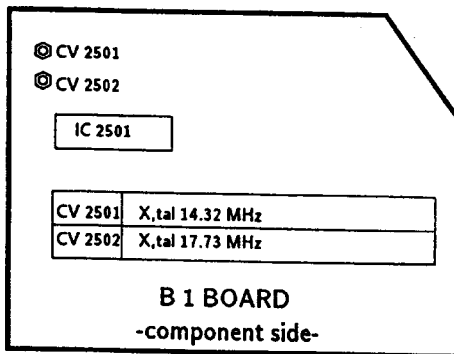


##### SECAM DISCRI adjustment (RV3301, L3303)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to Pin ① of IC3302.
3. Adjust RV3301 so that the sections corresponding to white and black are at 0 level.
4. Connect the oscilloscope to Pin ③ of IC3302.
5. Adjust L3303 so that the sections corresponding to white and black are at 0 level.
6. Carry out the 2 - 5 tracking.



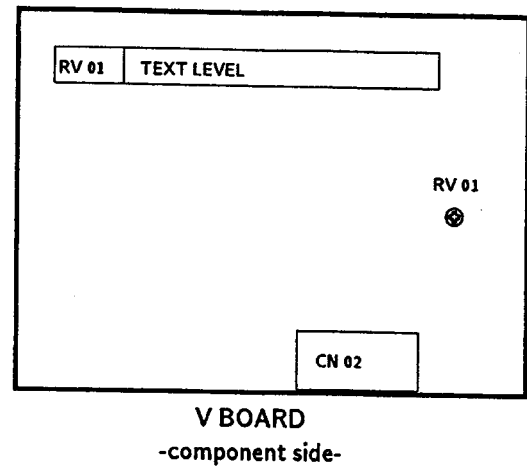
#### 4-10. B1 BOARD ADJUSTMENT



##### Crystal adjustment (CV2502)

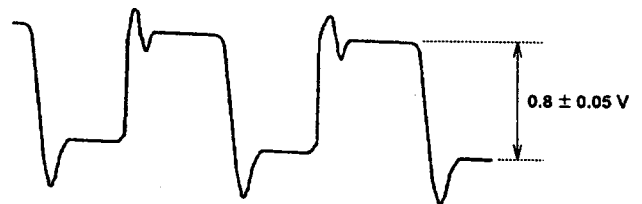
1. Put the unit into the no-signal state.
2. Select PAL with COLOR SYSTEM.
3. Connect a frequency counter to Pin ⑩ of IC2501.
4. Adjust CV2502 for a frequency of 17.73447 MHz  $\pm$  100 Hz.
5. Select NTSC with COLOR SYSTEM.
6. Adjust CV2501 for a frequency of 14.31818 MHz  $\pm$  100 Hz.

#### 4-11. V BOARD ADJUSTMENT



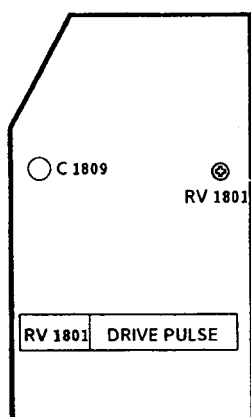
##### Text level adjustment (RV01)

1. Receive a teletext signal.
2. Connect an oscilloscope to Pin ④ of CN02.
3. Adjust RV01 for a voltage of 0.5  $\pm$  0.05 V.



**Note:** The item 44 TXPIC should be set to 05 value in the service mode.

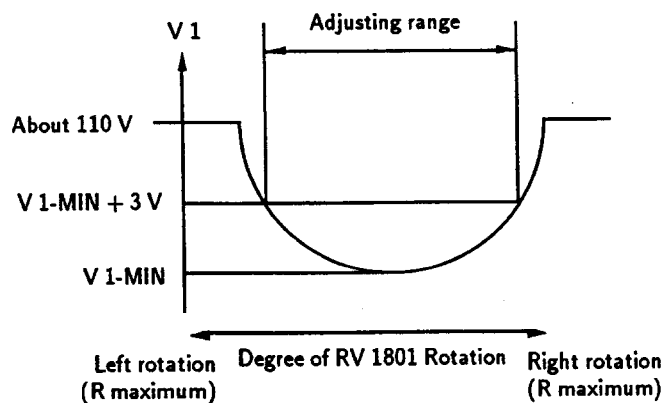
#### 4-12. VC BOARD ADJUSTMENT



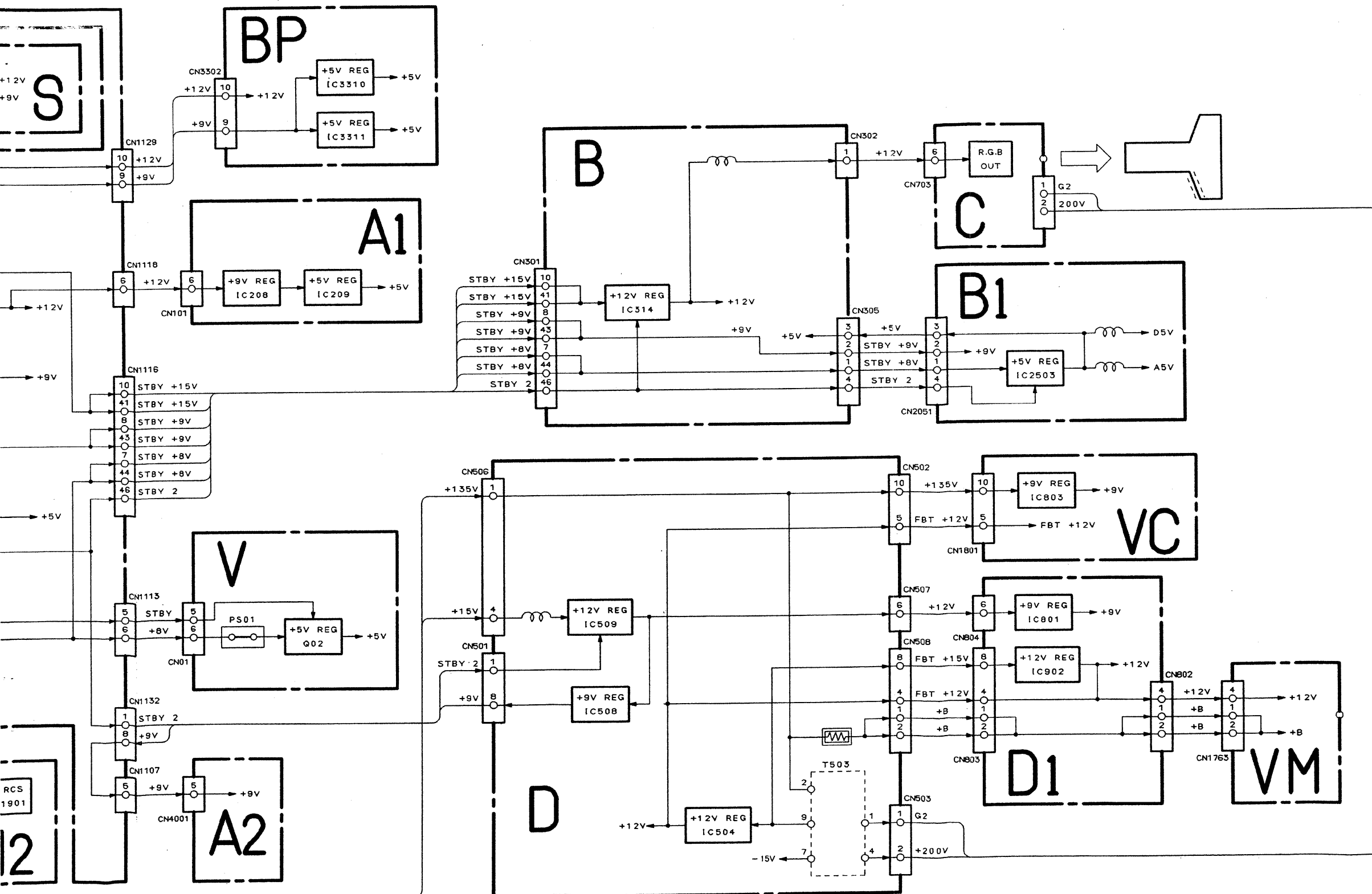
VC BOARD  
-component side-

##### Drive pulse adjustment (RV1801)

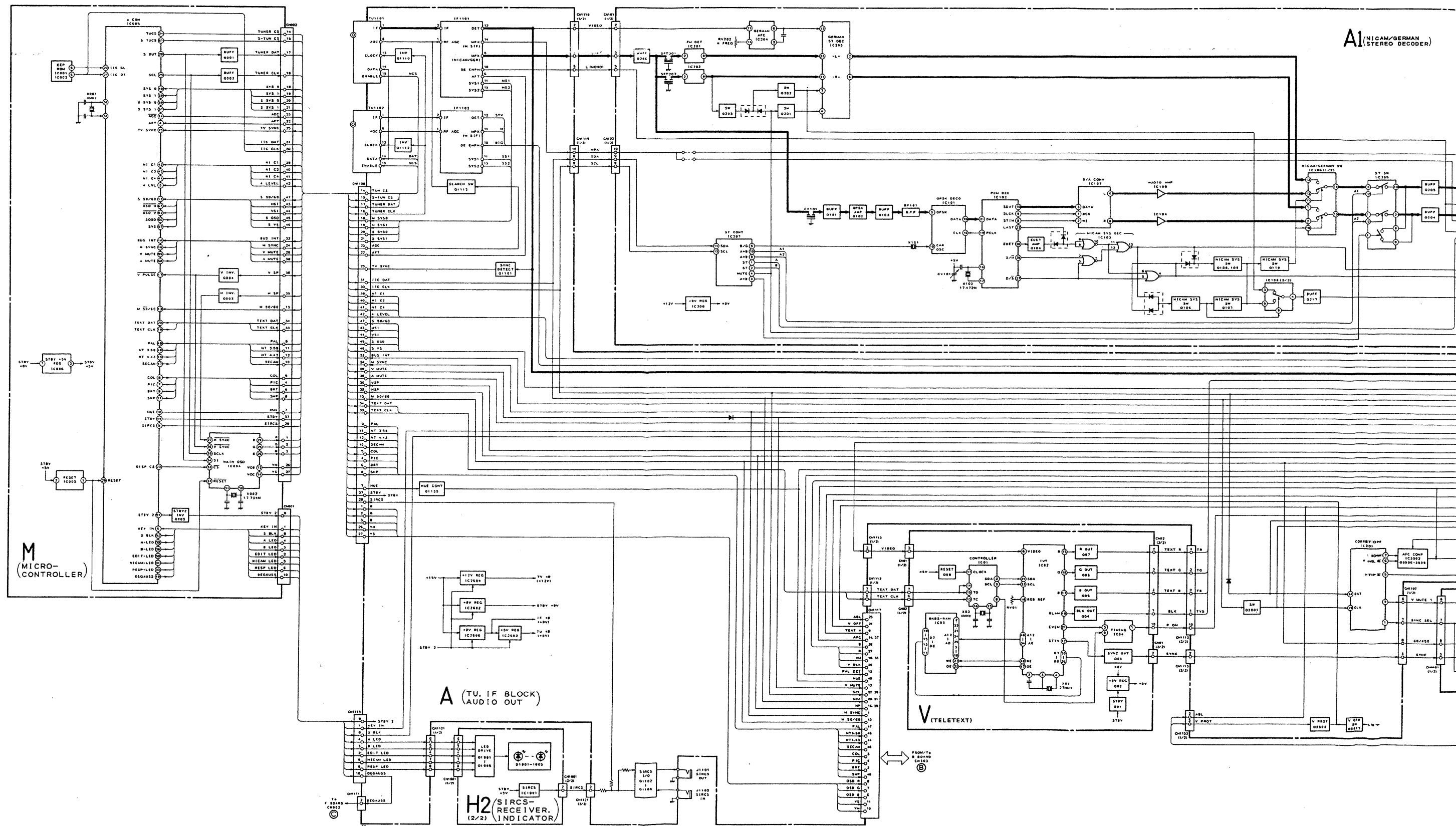
1. Connect a DC voltmeter across C1809.
2. Adjust RV1801 for the minimum voltage  $V_1$  across C1809. The adjustment range is  $V_1 \text{ min } +3 \text{ V}$ .

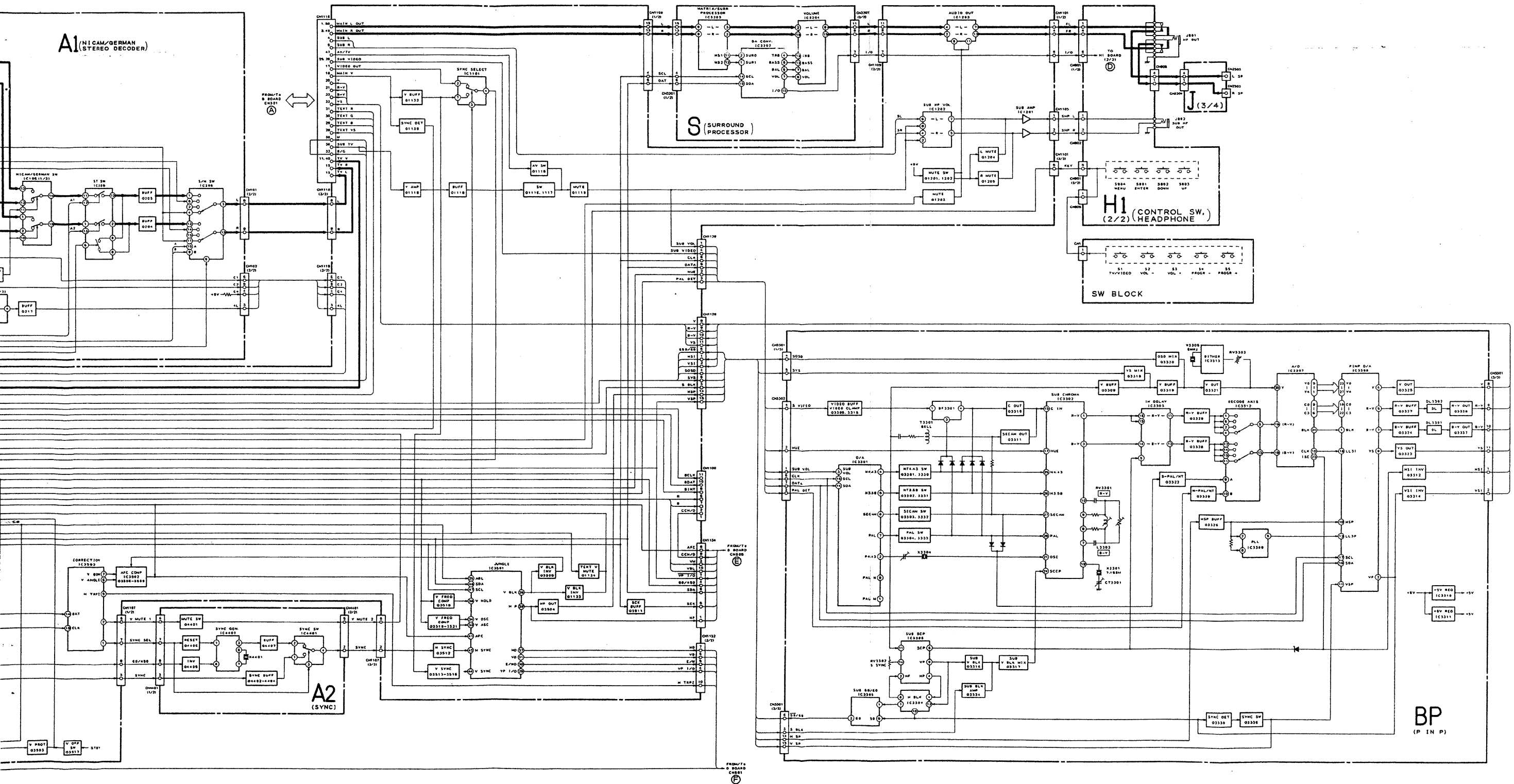


### 5-1. BLOCK DIAGRAM-1



BLOCK DIAGRAM-2



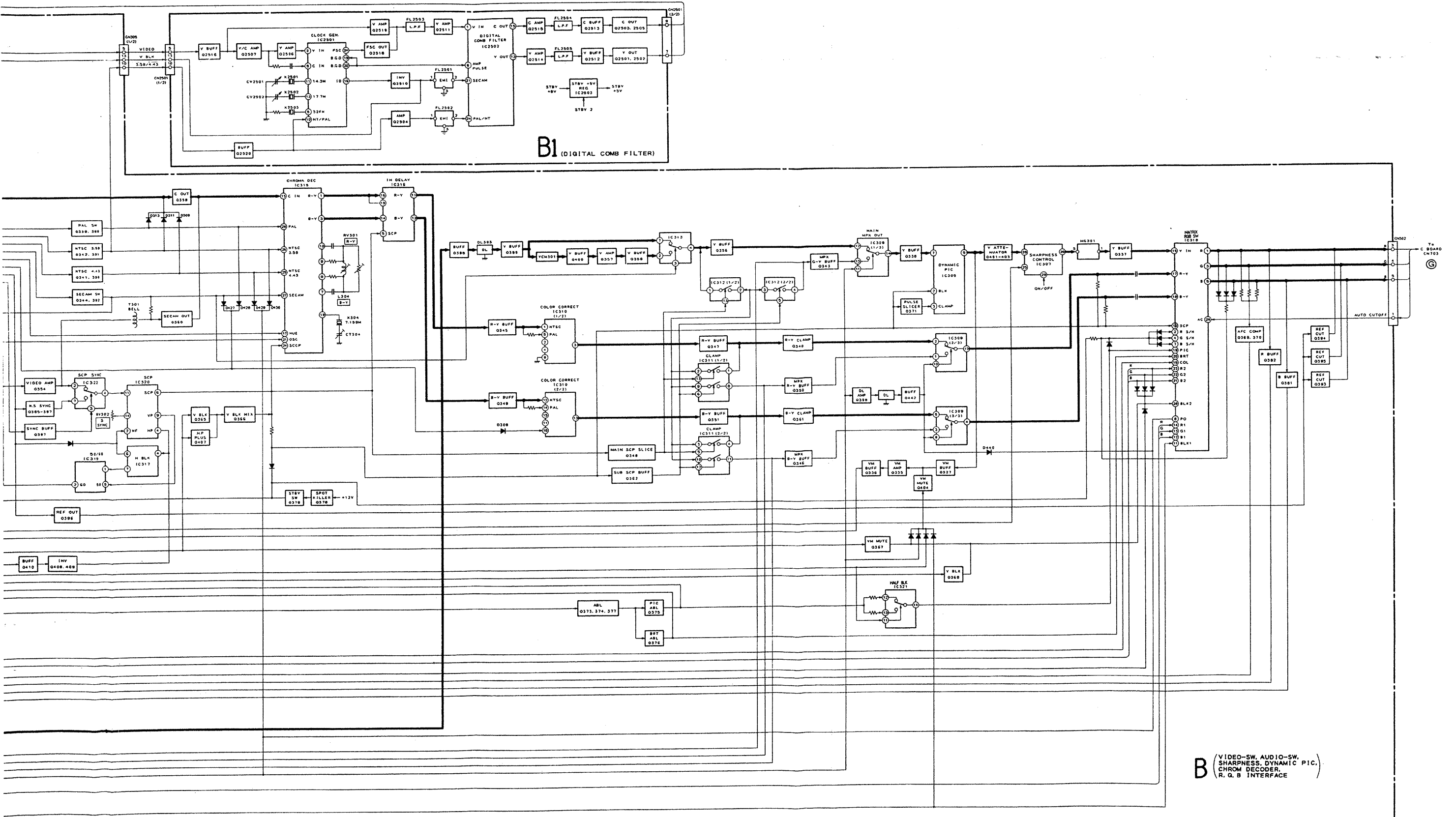




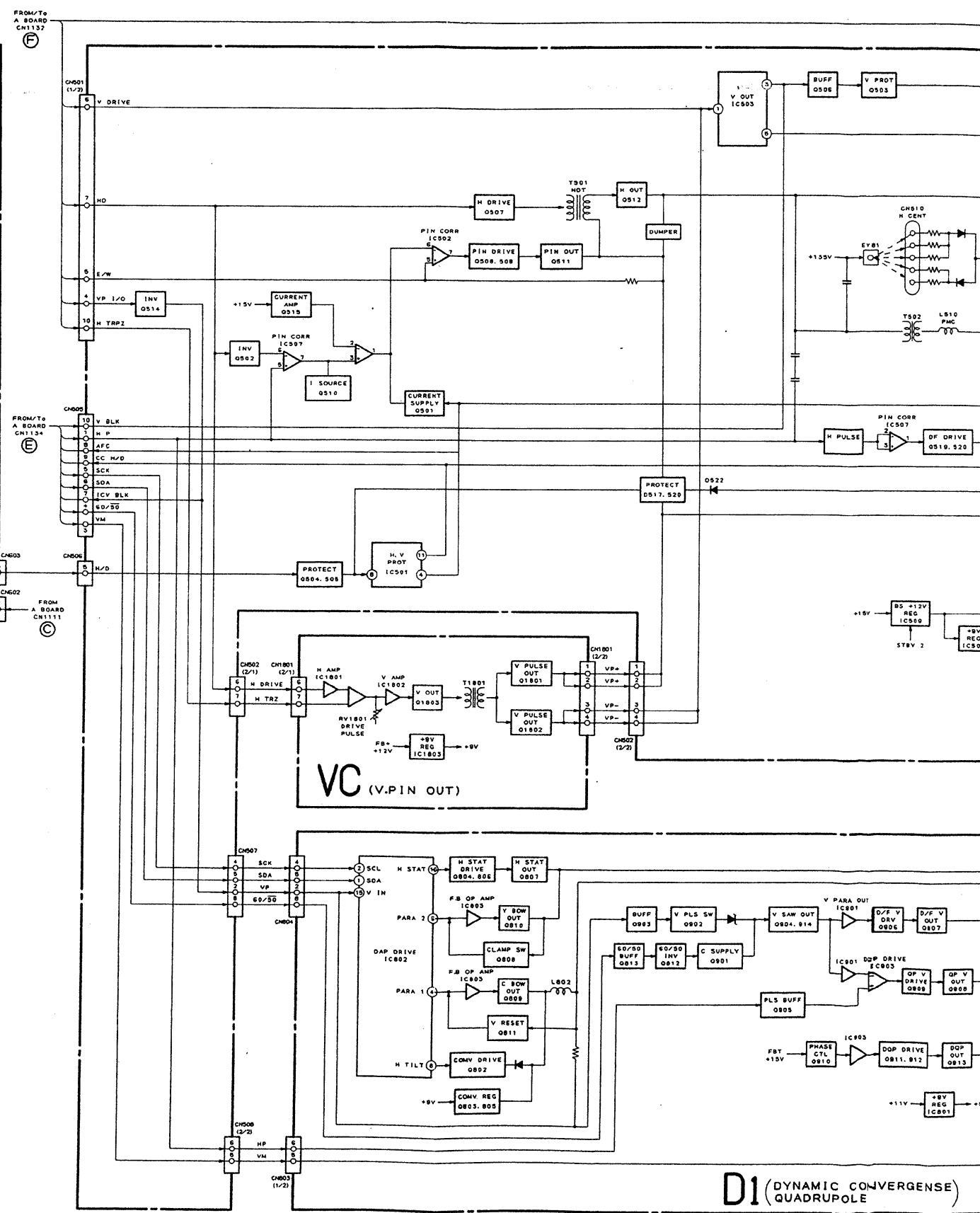


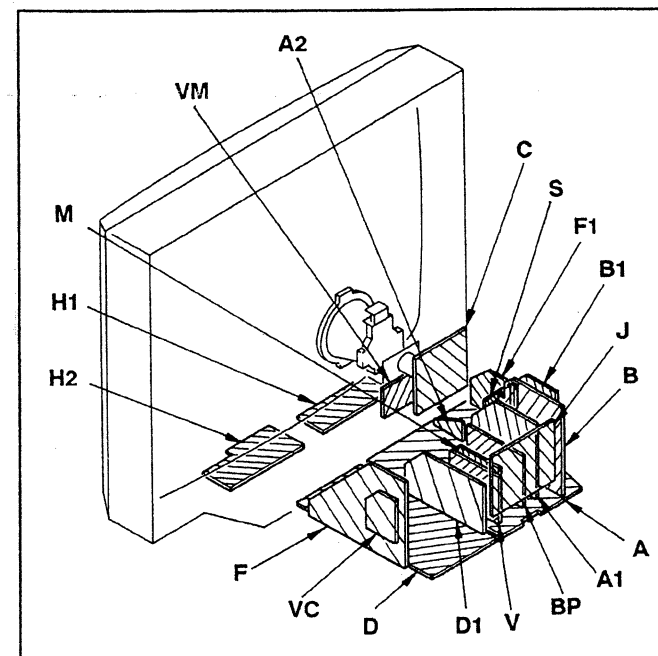
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821



The schematic diagram illustrates the power supply system, starting with an AC input connected to a transformer (F1, T5A) and a switch (H2, 2/2 AC SW). The AC is then rectified by a bridge rectifier (DE01) and filtered by a capacitor (RECT SW, IC601). The resulting DC is then regulated by a series of regulators (IC602, IC603, IC604, IC605, IC606, IC607, IC608, IC609, IC610, IC611, IC612, IC613, IC614, IC615, IC616, IC617, IC618, IC619, IC620, IC621, IC622, IC623, IC624, IC625, IC626, IC627, IC628, IC629, IC630, IC631, IC632, IC633, IC634, IC635, IC636, IC637, IC638, IC639, IC640, IC641, IC642, IC643, IC644, IC645, IC646, IC647, IC648, IC649, IC650, IC651, IC652, IC653, IC654, IC655, IC656, IC657, IC658, IC659, IC660, IC661, IC662, IC663, IC664, IC665, IC666, IC667, IC668, IC669, IC670, IC671, IC672, IC673, IC674, IC675, IC676, IC677, IC678, IC679, IC680, IC681, IC682, IC683, IC684, IC685, IC686, IC687, IC688, IC689, IC690, IC691, IC692, IC693, IC694, IC695, IC696, IC697, IC698, IC699, IC700, IC701, IC702, IC703, IC704, IC705, IC706, IC707, IC708, IC709, IC710, IC711, IC712, IC713, IC714, IC715, IC716, IC717, IC718, IC719, IC720, IC721, IC722, IC723, IC724, IC725, IC726, IC727, IC728, IC729, IC730, IC731, IC732, IC733, IC734, IC735, 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**Note :**

- All capacitors are in  $\mu F$  unless otherwise noted. p:  $\mu \mu F$ . 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  
 $k \Omega = 1000 \Omega$ ,  $M \Omega = 1000k \Omega$
- Indication of resistance, which does not have one for rating electrical power is as follows.

-  : nonflammable resistor.
- $\Delta$  : internal component.
-  : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.  
no mark : PAL  
< > : SECAM  
( ) : NTSC 3.58  
《 》 : NTSC 4.43
- Readings are taken with a 10M  $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltages variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Can not be measured.
- Circled numbers are waveform references.
-  : B+ bus.
-  : B- bus.
-  : signal path.

|           |     |             |                          |
|-----------|-----|-------------|--------------------------|
| RESISTOR  | :   | RN          | METAL FILM               |
|           | :   | RC          | SOLID                    |
|           | :   | FPRD        | NONFLAMMABLE CARBON      |
|           | :   | FUSE        | NONFLAMMABLE FUSIBLE     |
|           | :   | RS          | NONFLAMMABLE METAL OXIDE |
|           | :   | RB          | NONFLAMMABLE CEMENT      |
|           | :   | RW          | NONFLAMMABLE WIREWOUND   |
|           | :   | ※           | ADJUSTMENT RESISTOR      |
| COIL      | :   | LF-8L       | MICRO INDUCTOR           |
| CAPACITOR | :   | TA          | TANTALUM                 |
|           | :   | PS          | STYROL                   |
|           | :   | PP          | POLYPROPYLENE            |
|           | :   | PT          | MYLAR                    |
|           | :   | MPS         | METALIZED POLYESTER      |
|           | :   | MPP         | METALIZED POLYPROPYLENE  |
|           | :   | ALB         | BIPOLAR                  |
|           | :   | ALT         | HIGH TEMPERATURE         |
| :         | ALR | HIGH RIPPLE |                          |

**H2 (SIRCSRECEIVER, INDICATOR) AC IN**

**F1 (L.F.T)**

**F (POWER SUPPLY)**

**COMPONENT LIST**

| NO | QTY | DESCRIPTION        | QTY | DESCRIPTION        |
|----|-----|--------------------|-----|--------------------|
| 1  | 1   | 0.1 250V           | 1   | 0.22 250V          |
| 2  | 1   | 100M               | 2   | OFF                |
| 3  | 1   | 100M               | 3   | OFF                |
| 4  | 1   | 100M               | 4   | OFF                |
| 5  | 1   | 100M               | 5   | OFF                |
| 6  | 1   | 1.8MH 1-424-585-11 | 6   | 1.8MH 1-424-183-11 |
| 7  | 1   | 1.8MH 1-424-585-11 | 7   | 1.8MH 1-424-183-11 |
| 8  | 1   | 1.8MH 1-424-183-11 | 8   | 1.8MH 1-424-183-11 |
| 9  | 1   | 0.22 250V          | 9   | 0.22 250V          |
| 10 | 1   | 0.001 400V         | 10  | 0.001 400V         |
| 11 | 1   | 0.001 400V         | 11  | 0.001 400V         |
| 12 | 1   | 1p WHT MINI        | 12  | 1p WHT MINI        |

**KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1**  
RM-821

**KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1**  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

**F** [POWER SUPPLY]

**F<sub>1</sub>** [LFT, AC IN]

**H2** [ SIRCSRECEIVER  
INDICATOR

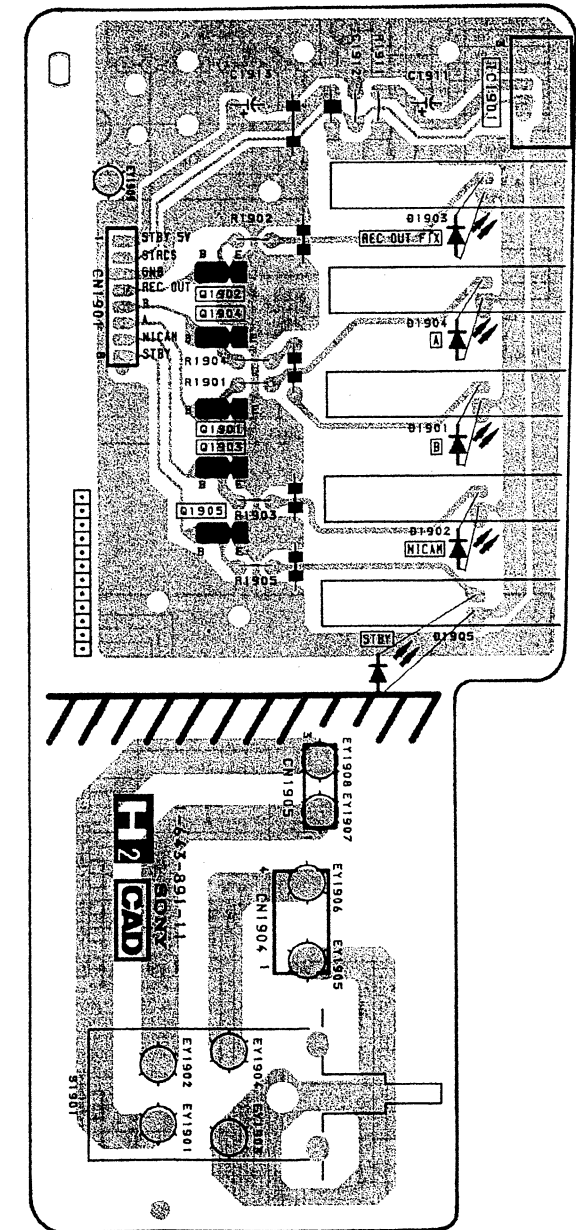
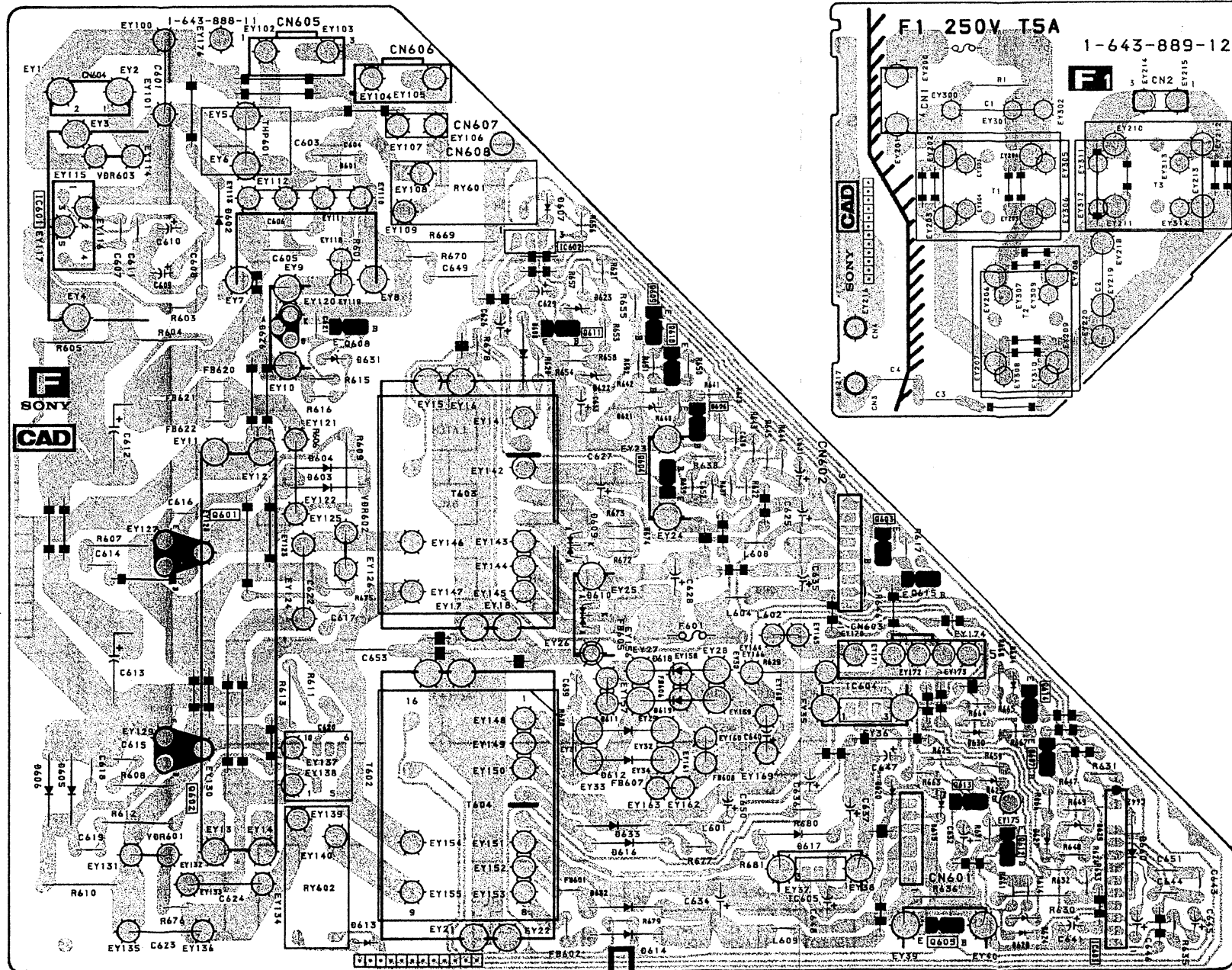
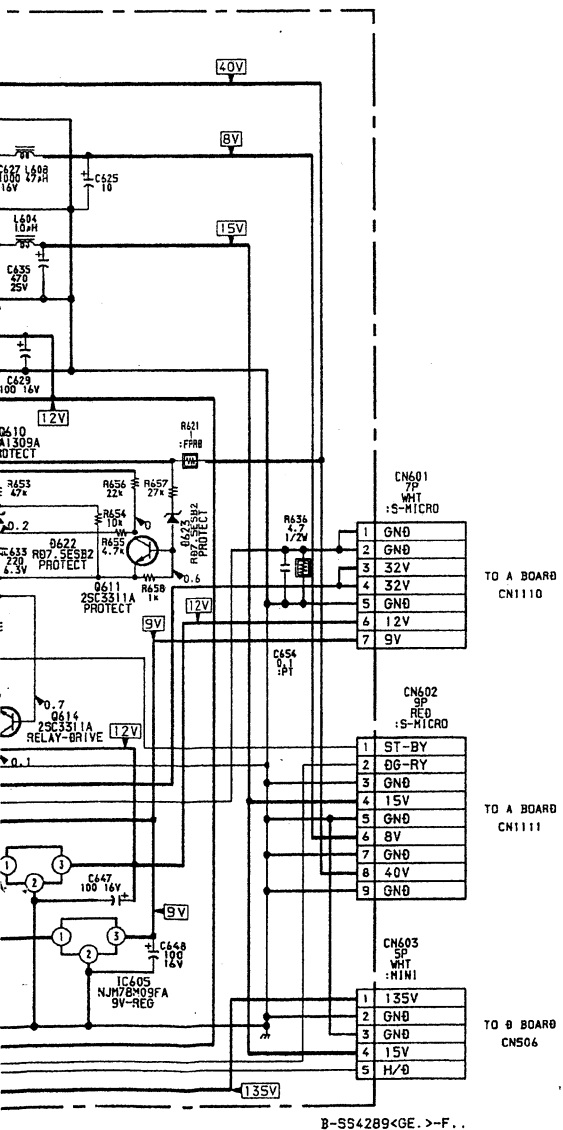
15 | 16 | 17

## PRINTED WIRING BOARDS

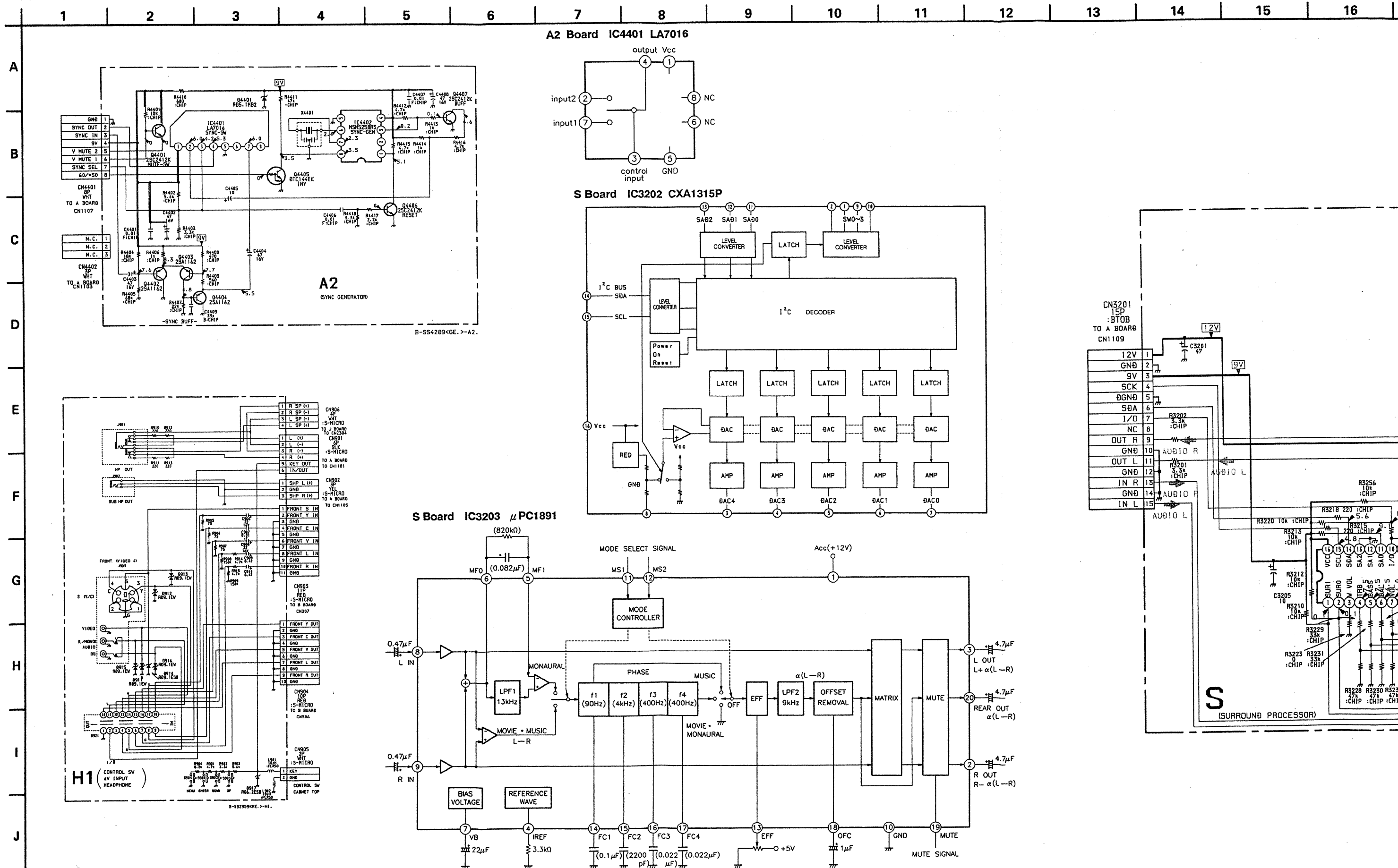
**- F Board -**

– F1 Board –

– H2 Board –



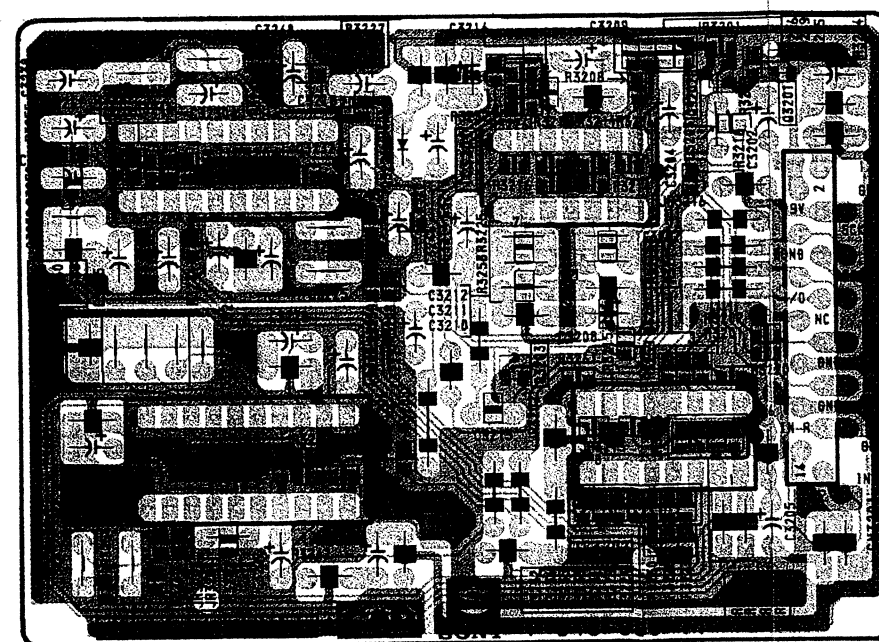
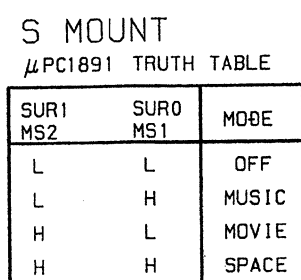
## (2) SCHEMATIC DIAGRAMS OF A2, H1 AND S BOARDS



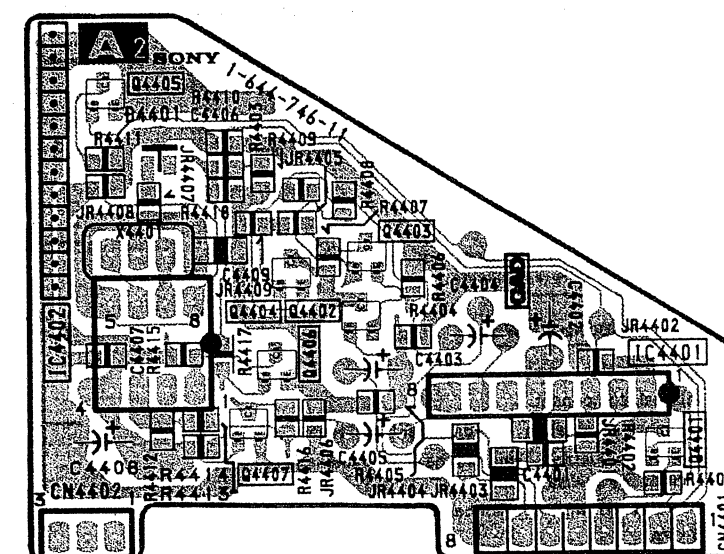
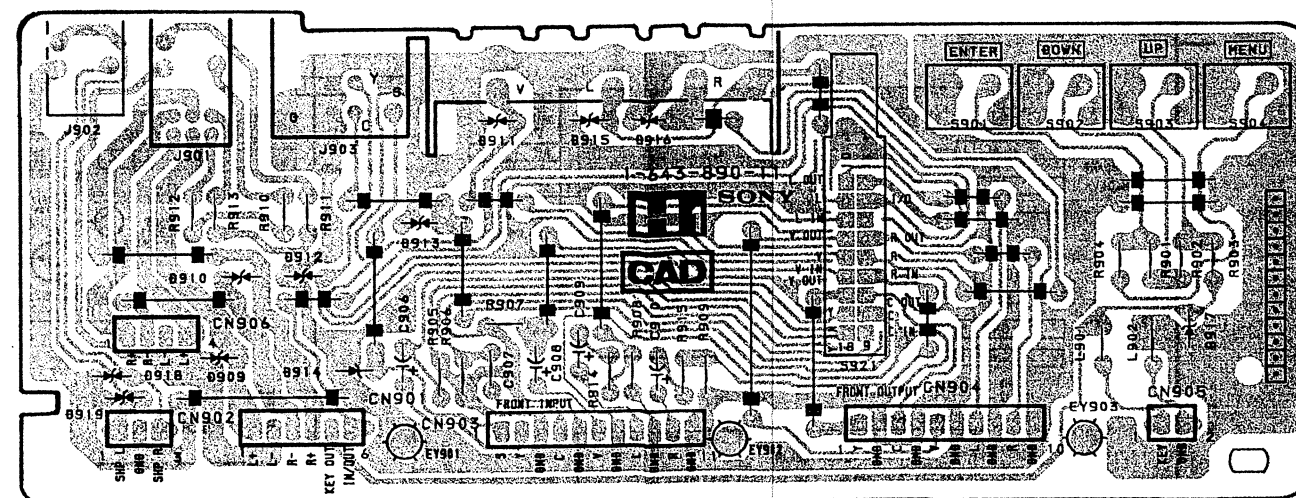


**- S Board -**

– A2 Board –



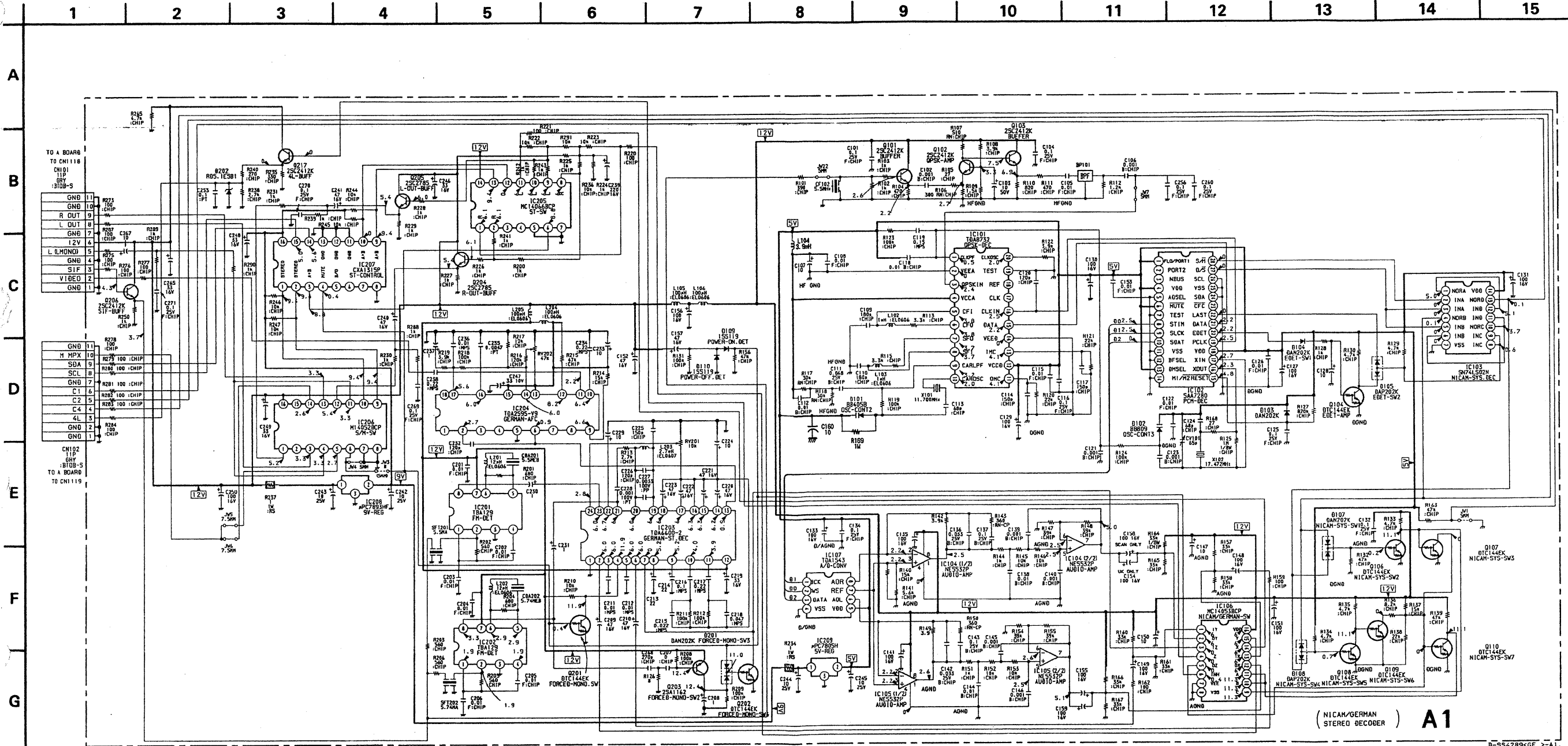
– H1 Board –



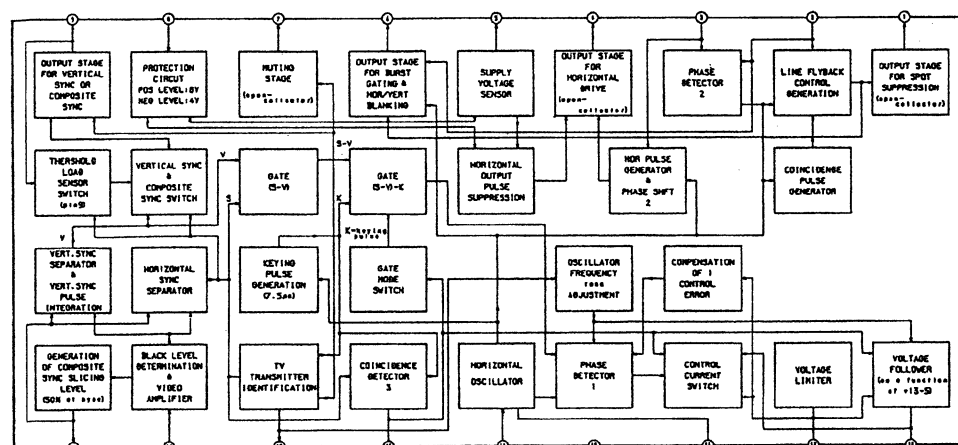
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

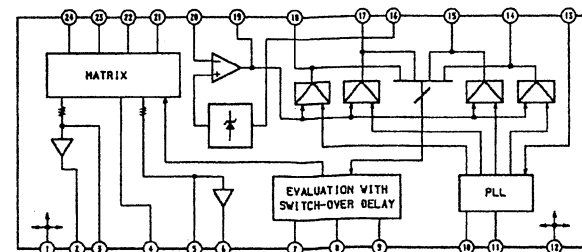
(3) SCHEMATIC DIAGRAM OF A1 BOARD



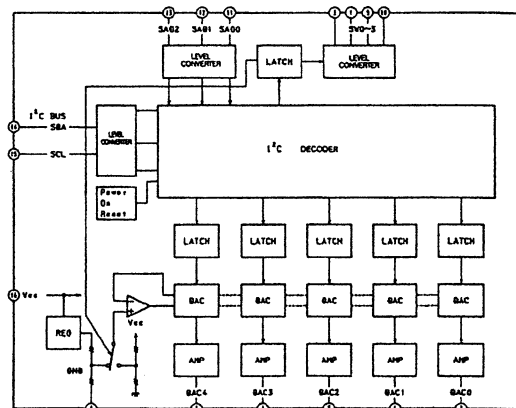
A1 Board IC204 TDA2595-V9



A1 Board IC203 TDA6600-2

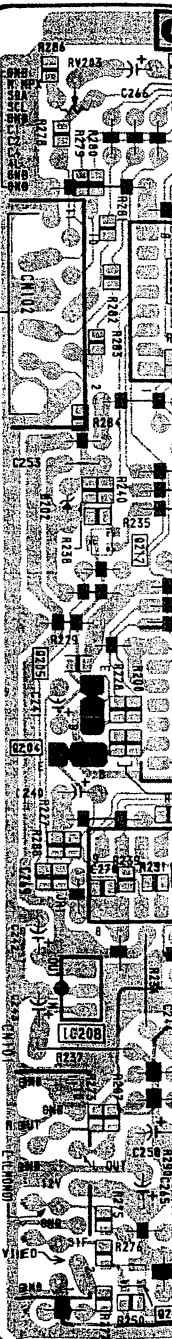


A1 Board IC207 CXA1315P



A1 NICAM/STEREO  
PRINTED WIRING

- A1 Board -

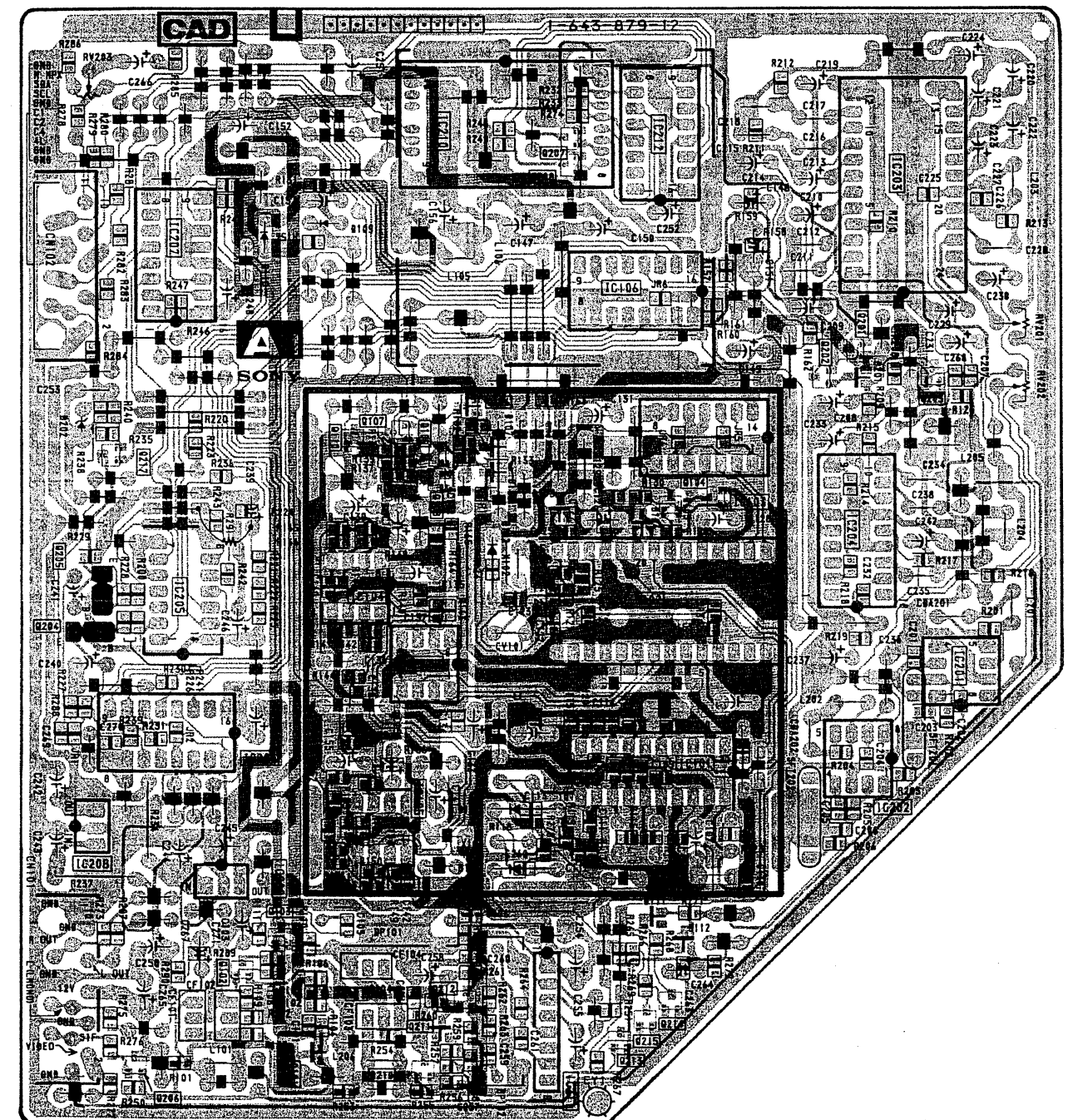
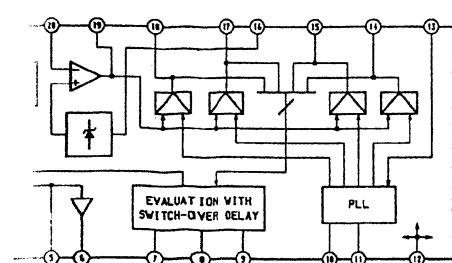




|   |   |    |    |    |    |    |    |
|---|---|----|----|----|----|----|----|
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|----|----|----|----|----|----|

## PRINTED WIRING BOARD

— A1 Board —

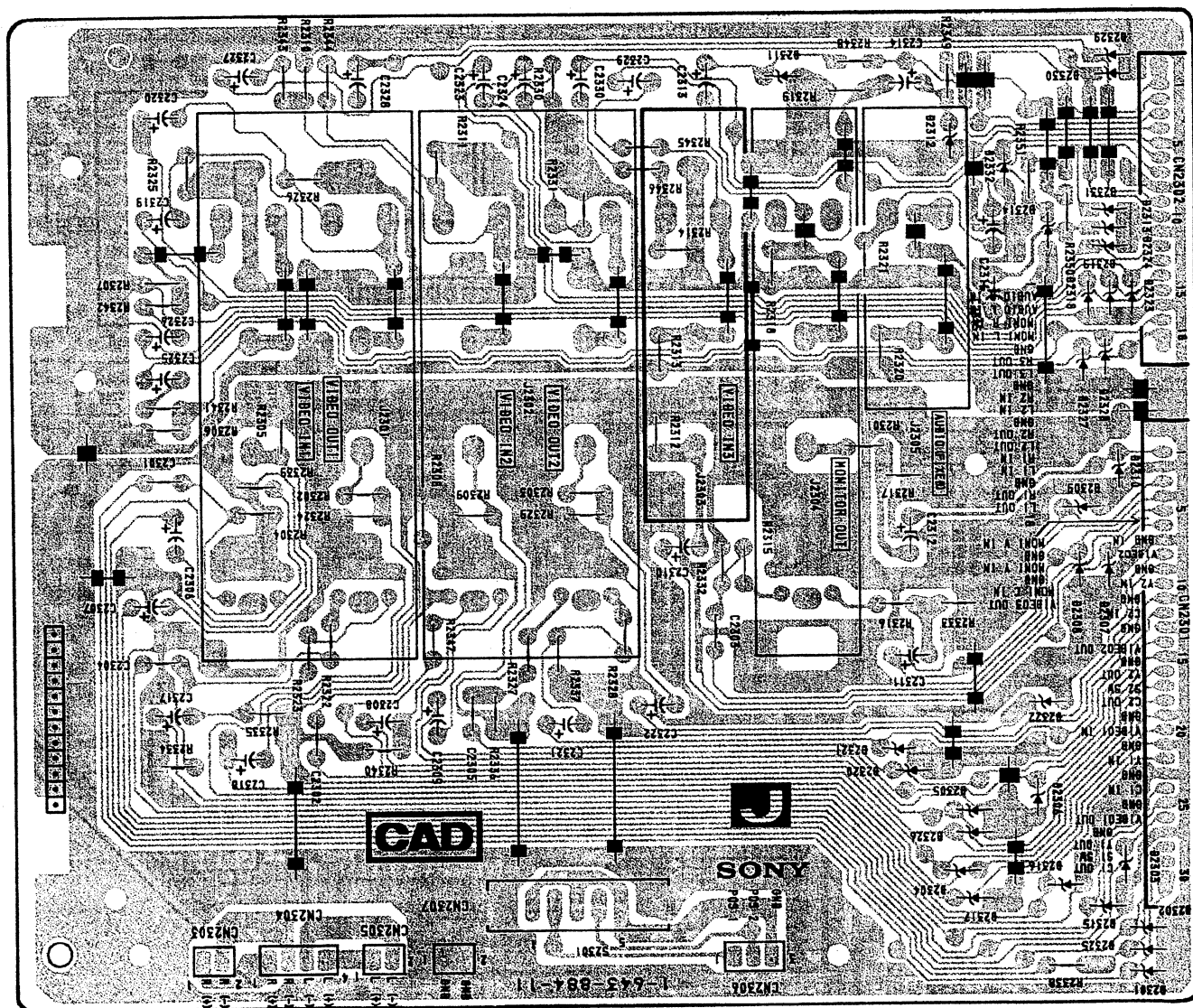


**J** [INPUT, OUTPUT]

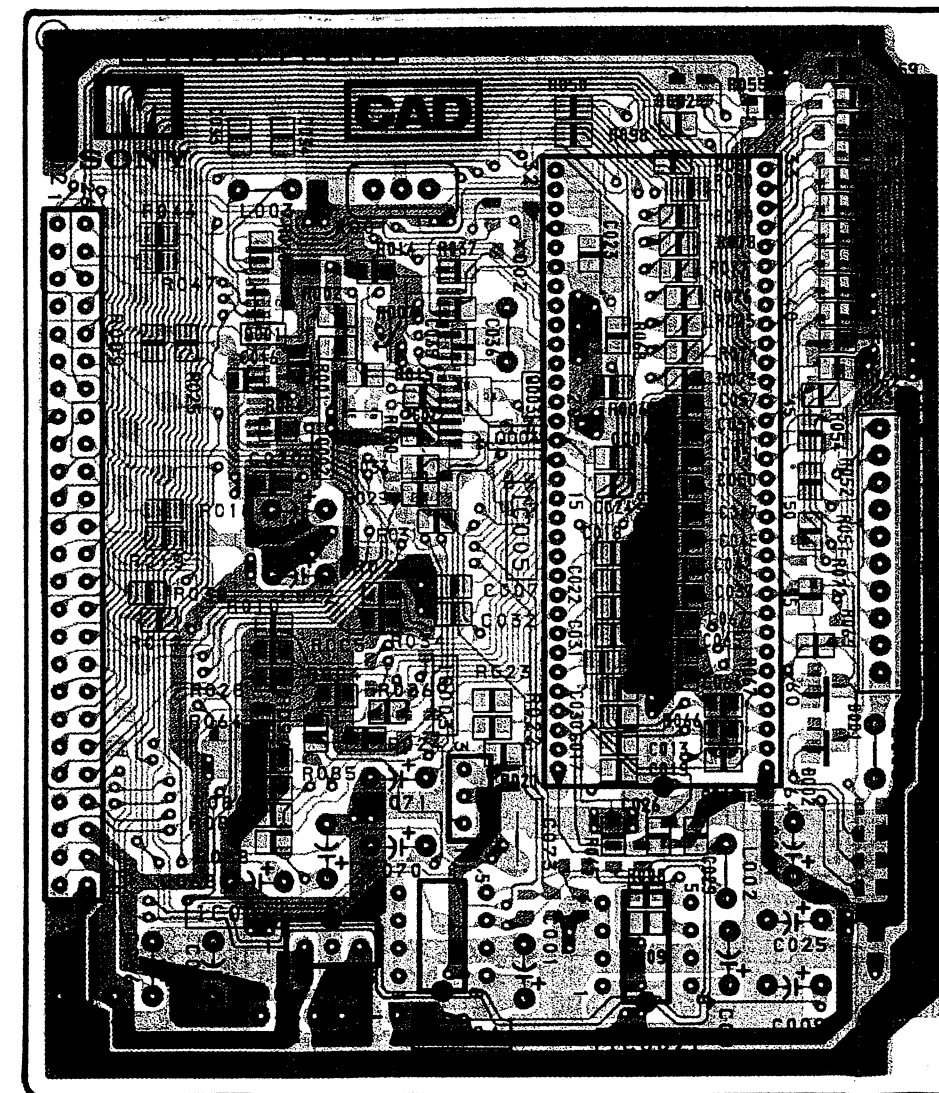
**M** [MICRO-CONTROLLER]

PRINTED WIRING BOARDS

— J Board —



— M Board (Conductor Side) —





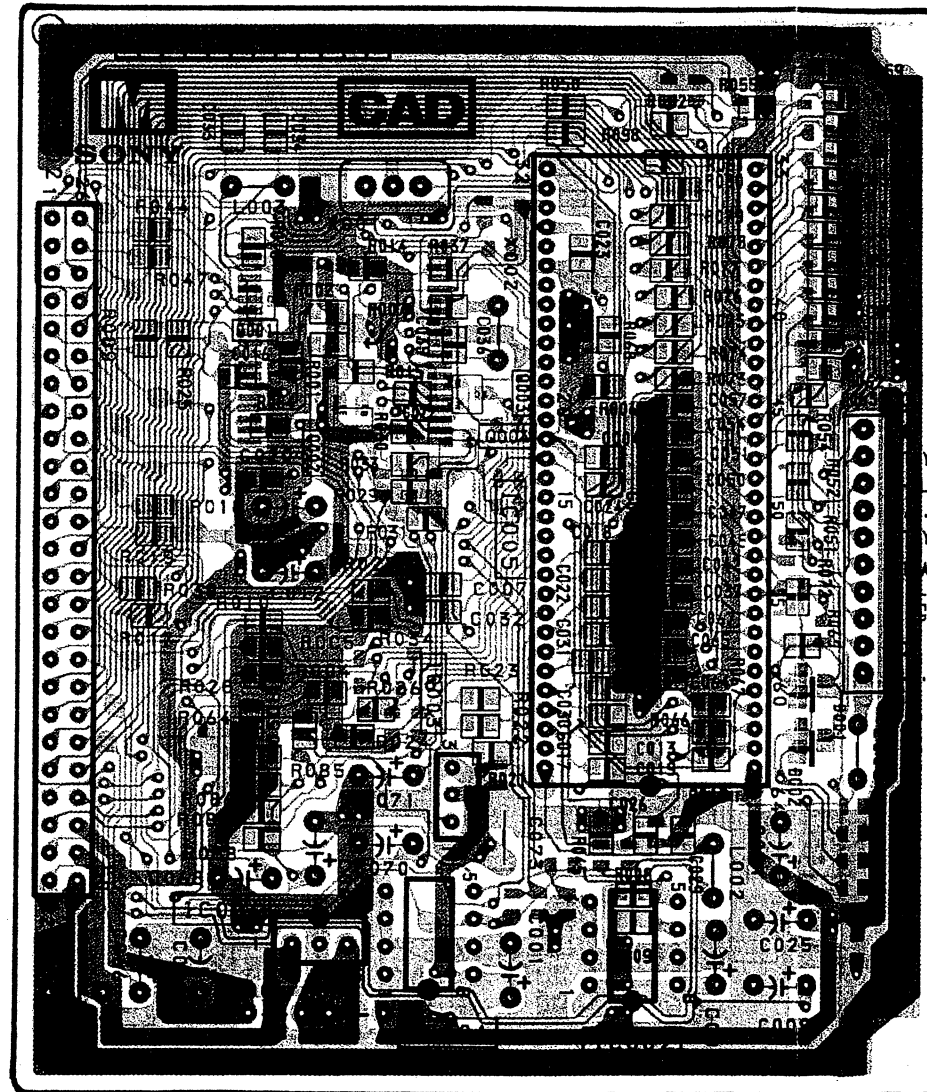
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

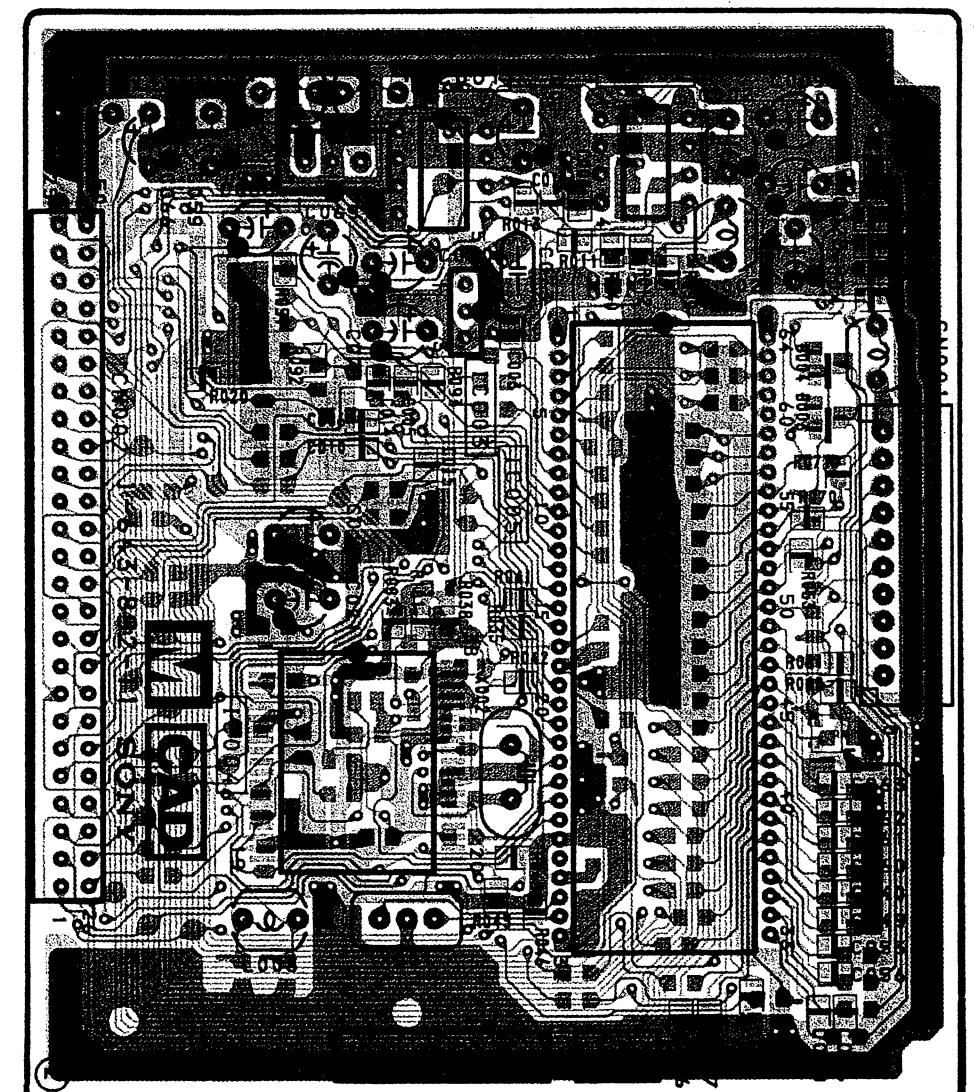
[JT, OUTPUT]

**M** [MICRO-CONTROLLER]

— M Board (Conductor Side) —

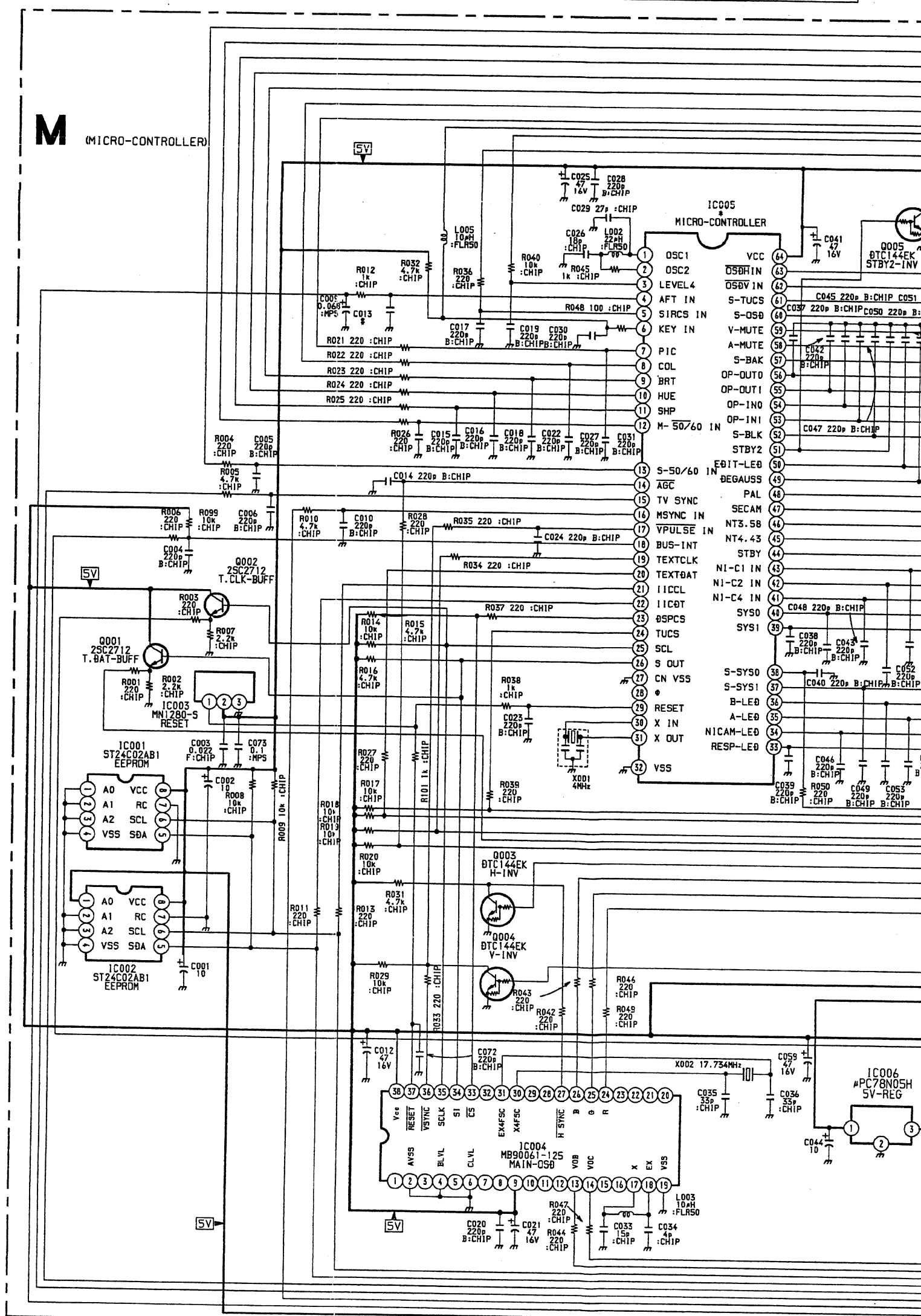


— M Board (Component Side) —

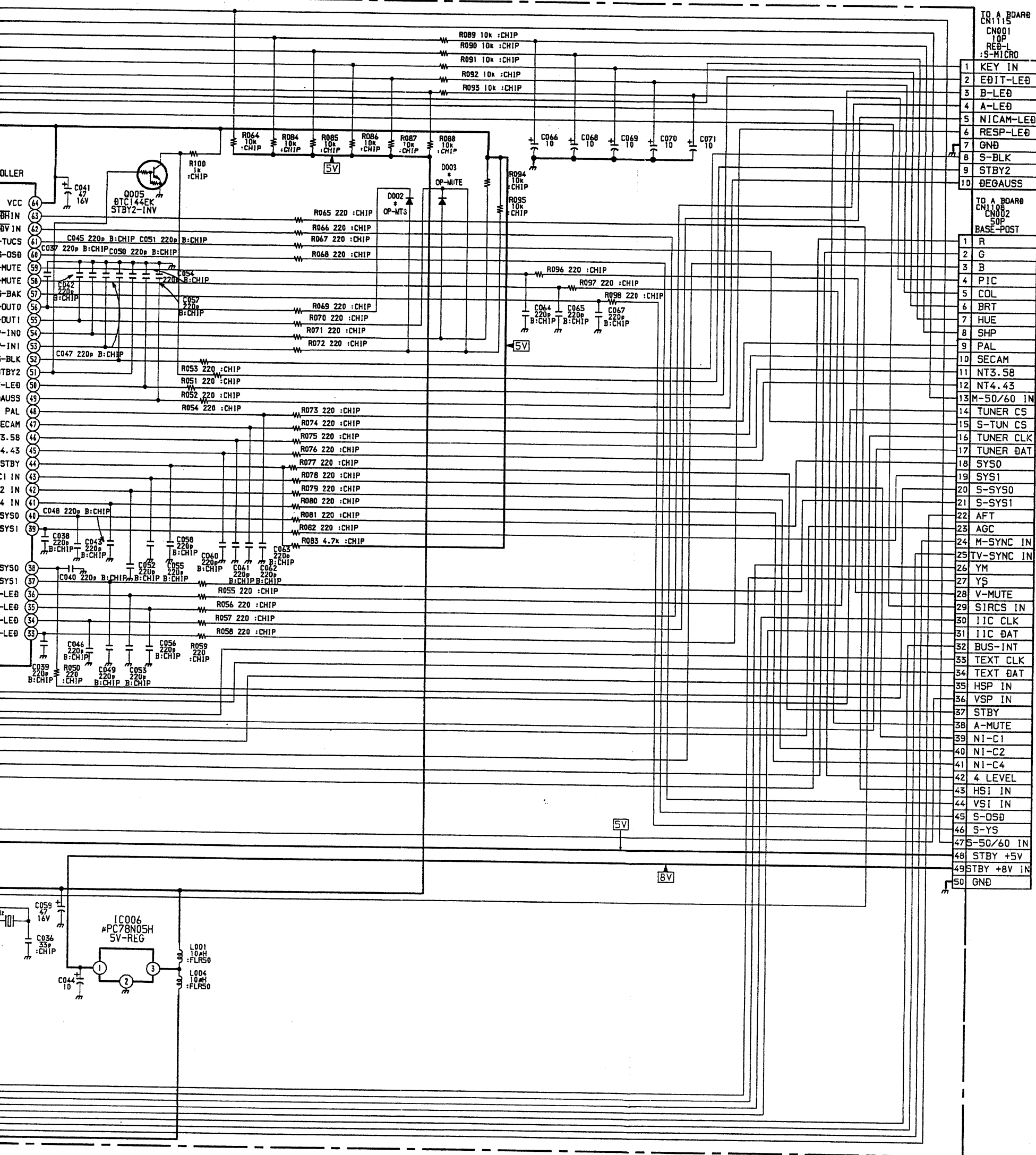


| M BOARD #MARK LIST |                                |                          |
|--------------------|--------------------------------|--------------------------|
|                    | KV-S28M1/S34M1<br>S28M1/S34SN1 | KV-S28JN1/S34JN1<br>etc. |
| * IC005            | M37204MB-A10SP                 | M37204MB-A11SP           |
| * D002             | 1SS226                         |                          |
| * D003             | 1SS226                         |                          |

| M BOARD #MARK LIST |                                   |                          |
|--------------------|-----------------------------------|--------------------------|
|                    | KV-S29MNI/S34MNI<br>S29SNI/S34SNI | KV-S29JNI/S34JNI<br>etc. |
| * IC005            | M37204MB-A10SP                    | M37204MB-A11SP           |
| * D002             | 1SS226                            | _____                    |
| * D003             | 1SS226                            | _____                    |

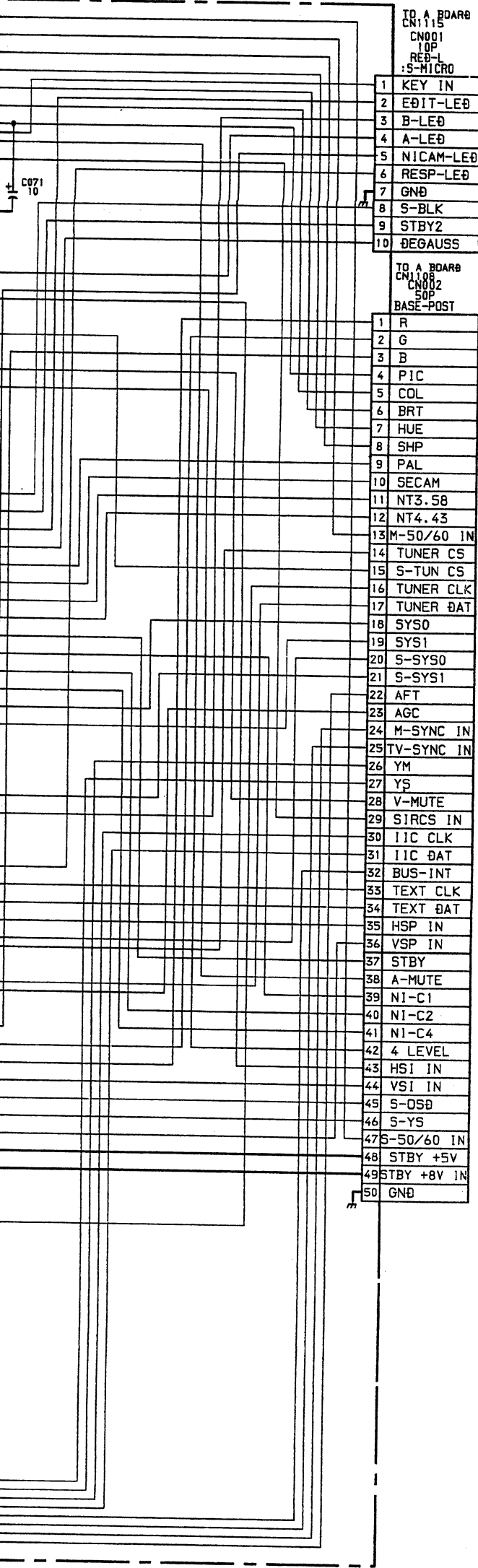


|                          |
|--------------------------|
| KV-S28JN1/S34JN1<br>etc. |
| M37204M8-A11SP           |
|                          |
|                          |

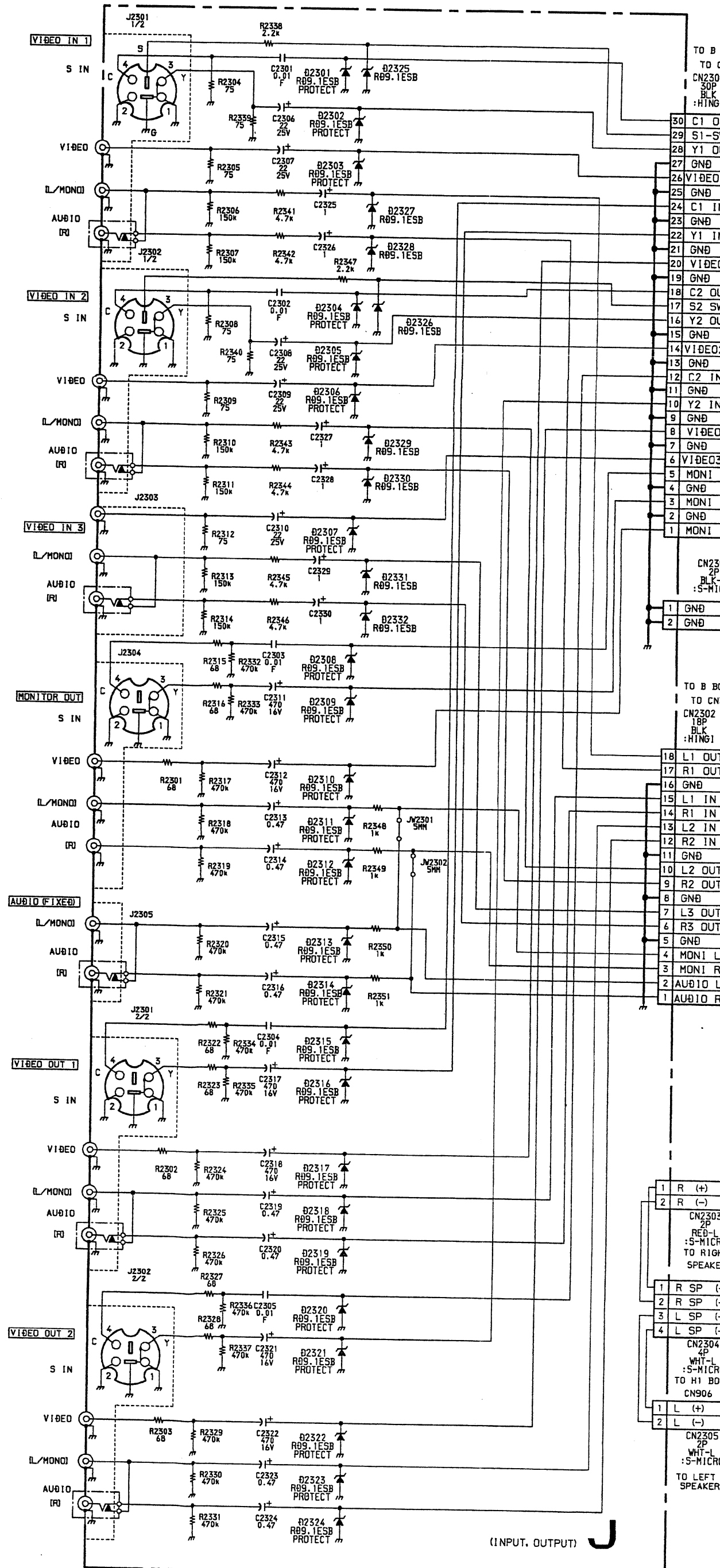


|                                                           |             |
|-----------------------------------------------------------|-------------|
| TO A BOARD<br>CN1115<br>CN001<br>10P<br>RED-L<br>:S-MICRO |             |
| 1                                                         | KEY IN      |
| 2                                                         | EDIT-LED    |
| 3                                                         | B-LED       |
| 4                                                         | A-LED       |
| 5                                                         | NICAM-LED   |
| 6                                                         | RESP-LED    |
| 7                                                         | GND         |
| 8                                                         | S-BLK       |
| 9                                                         | STBY2       |
| 10                                                        | DEGAUSS     |
| TO A BOARD<br>CN1108<br>CN002<br>50P<br>BASE-POST         |             |
| 1                                                         | R           |
| 2                                                         | G           |
| 3                                                         | B           |
| 4                                                         | PIC         |
| 5                                                         | COL         |
| 6                                                         | BRT         |
| 7                                                         | HUE         |
| 8                                                         | SHF         |
| 9                                                         | PAL         |
| 10                                                        | SECAM       |
| 11                                                        | NT3.58      |
| 12                                                        | NT4.43      |
| 13                                                        | M-50/60 IN  |
| 14                                                        | TUNER CS    |
| 15                                                        | S-TUN CS    |
| 16                                                        | TUNER CLK   |
| 17                                                        | TUNER DAT   |
| 18                                                        | SYS0        |
| 19                                                        | SYS1        |
| 20                                                        | S-SYS0      |
| 21                                                        | S-SYS1      |
| 22                                                        | AFT         |
| 23                                                        | AGC         |
| 24                                                        | M-SYNC IN   |
| 25                                                        | TV-SYNC IN  |
| 26                                                        | YM          |
| 27                                                        | YS          |
| 28                                                        | V-MUTE      |
| 29                                                        | SIRCS IN    |
| 30                                                        | IIC CLK     |
| 31                                                        | IIC DAT     |
| 32                                                        | BUS-INT     |
| 33                                                        | TEXT CLK    |
| 34                                                        | TEXT DAT    |
| 35                                                        | HSP IN      |
| 36                                                        | VSP IN      |
| 37                                                        | STBY        |
| 38                                                        | A-MUTE      |
| 39                                                        | NI-C1       |
| 40                                                        | NI-C2       |
| 41                                                        | NI-C4       |
| 42                                                        | 4 LEVEL     |
| 43                                                        | HSI IN      |
| 44                                                        | VSI IN      |
| 45                                                        | S-OSD       |
| 46                                                        | S-YS        |
| 47                                                        | S-50/60 IN  |
| 48                                                        | STBY +5V    |
| 49                                                        | STBY +8V IN |
| 50                                                        | GND         |

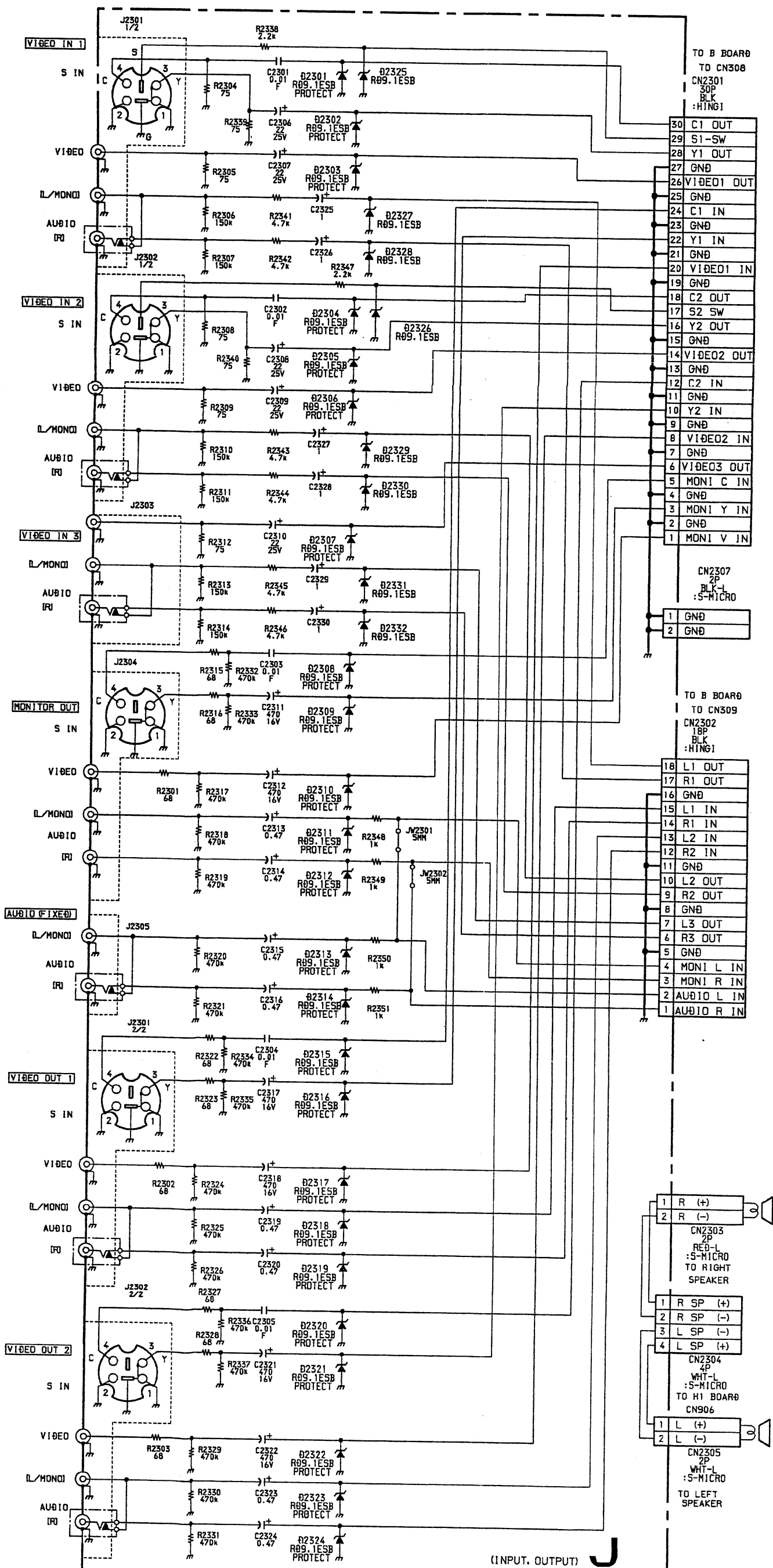
B-SS4289<GE.>-M..



B-SS4289<GE.>-M..



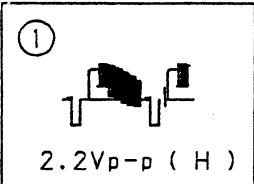
B-SS2959<ME.>-J..



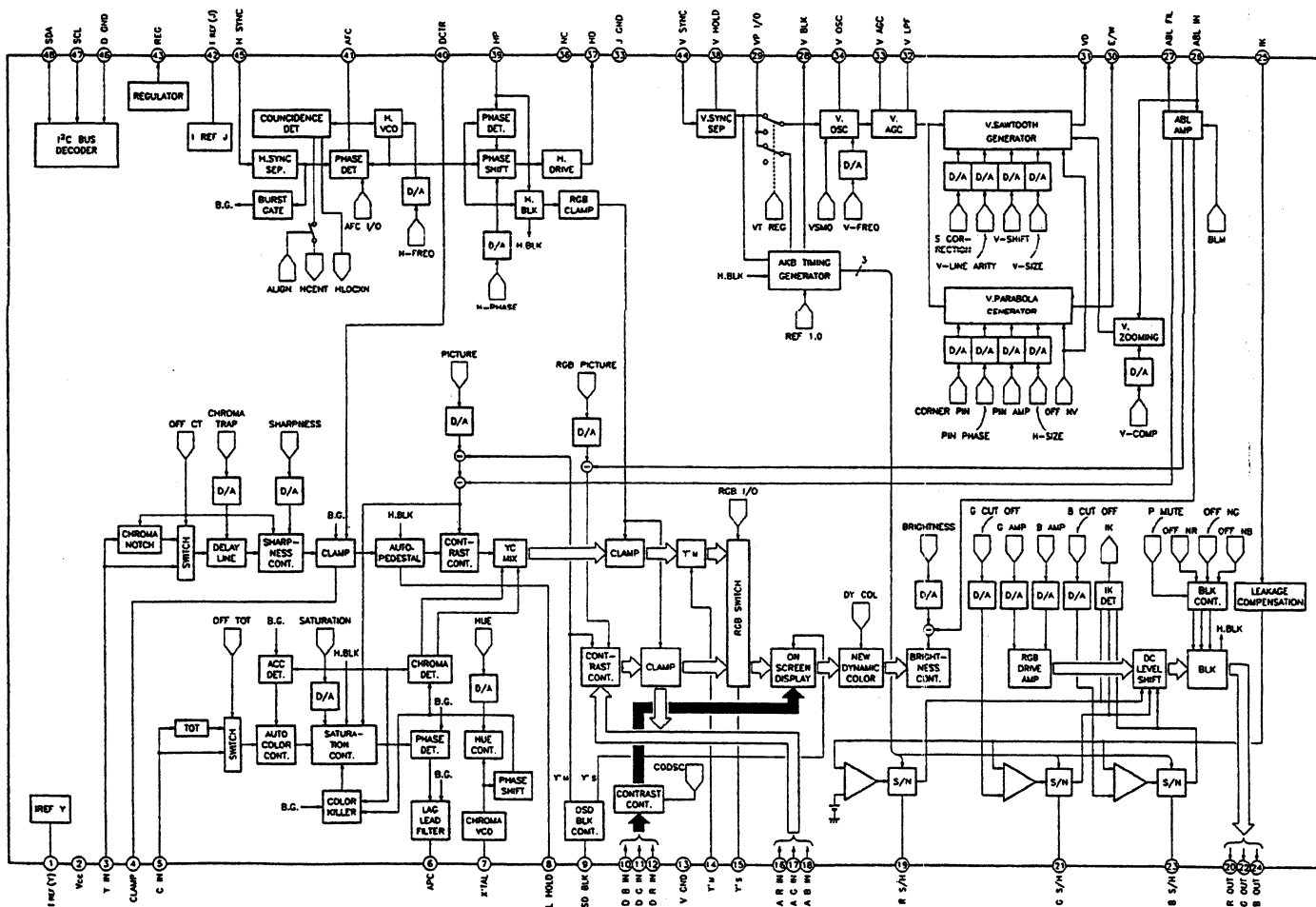


(5) SCHEMATIC DIAGRAM OF A BOARD

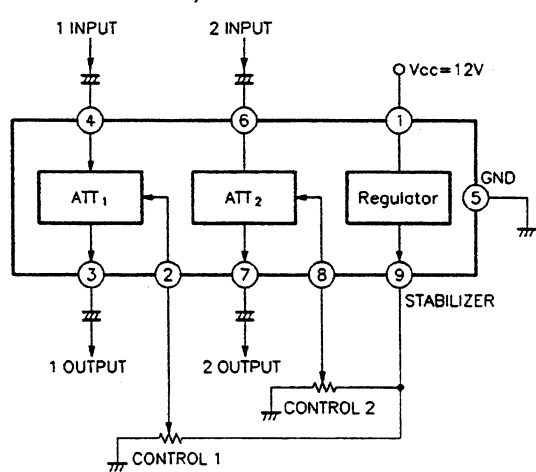
A BOARD WAVEFORMS



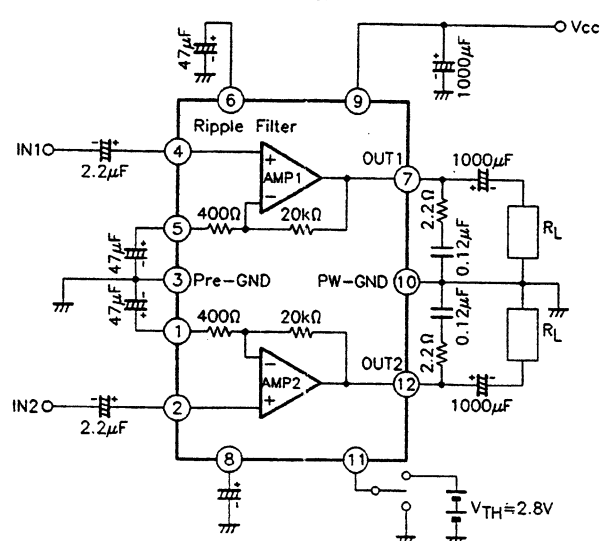
A Board IC3501 CXA1464AS



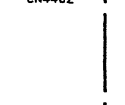
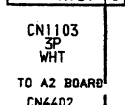
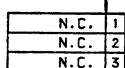
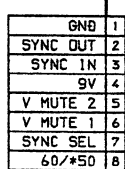
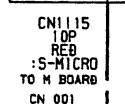
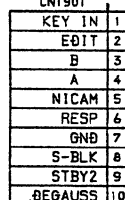
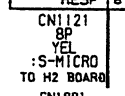
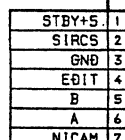
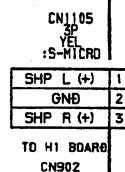
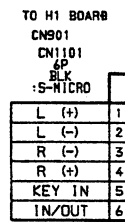
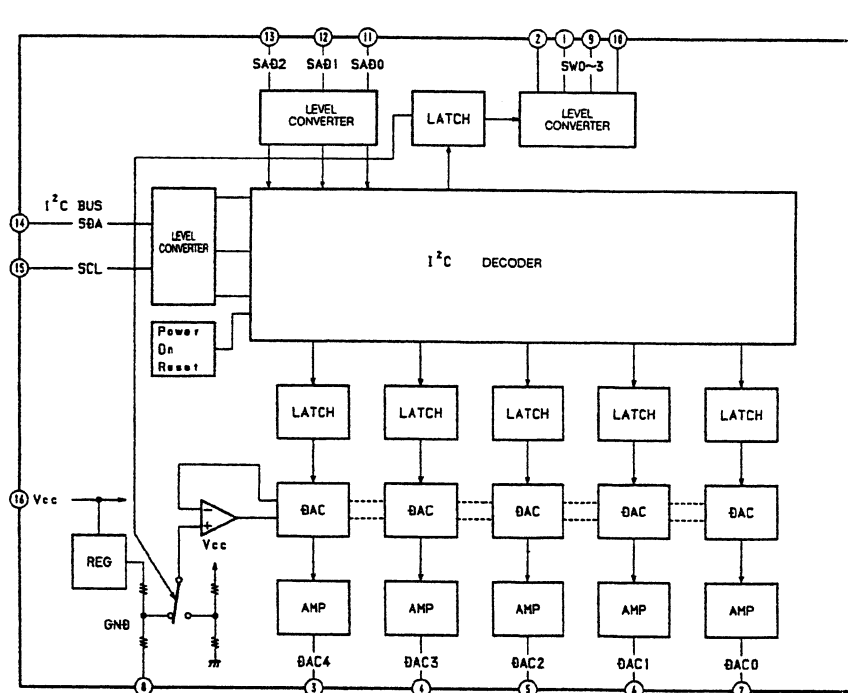
A Board IC1202  $\mu$ PC1406HA



A Board IC1203 TA8216H

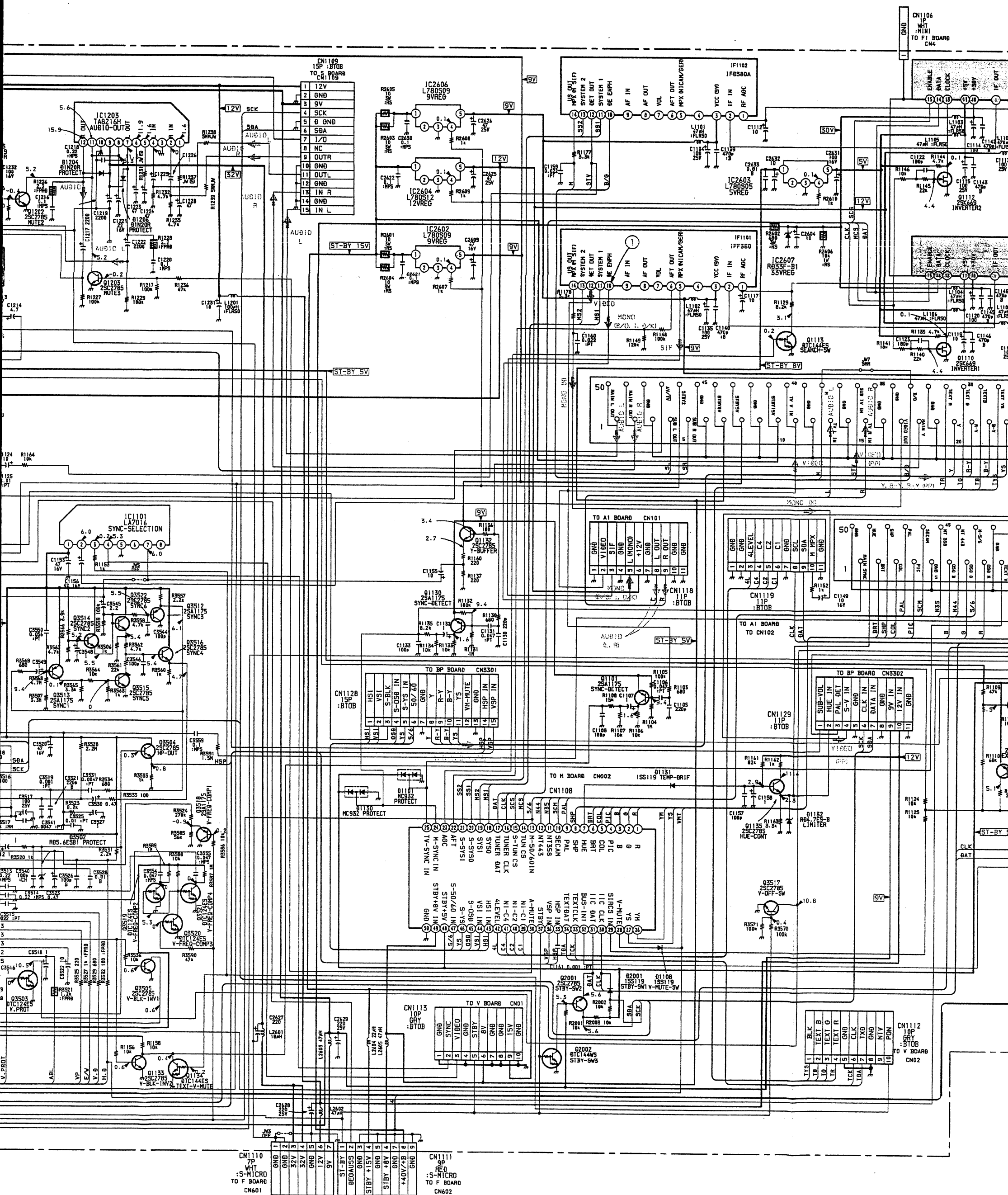


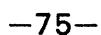
A Board IC3503 CXA1315P













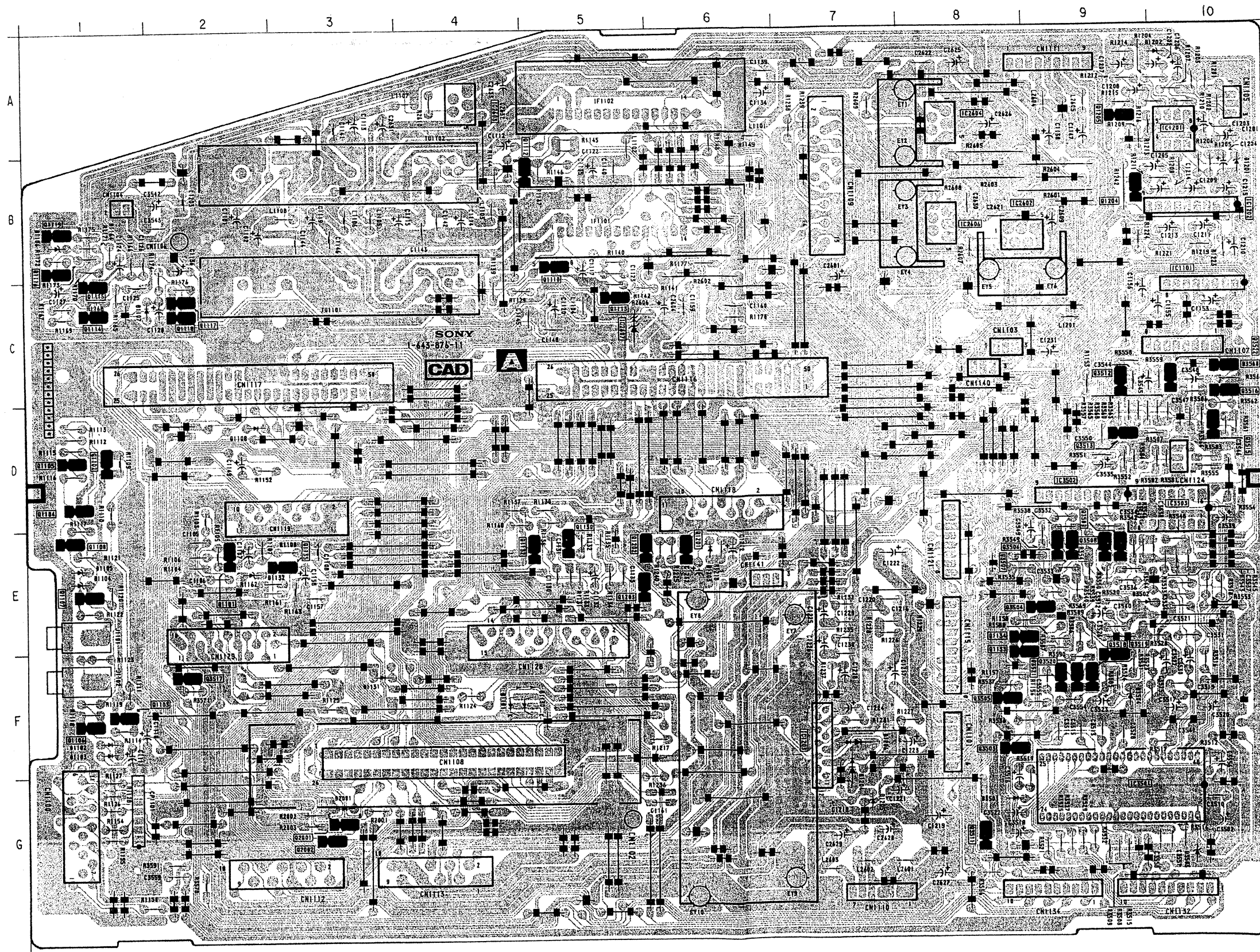
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

**A** TU, IF BLOCK  
AUDIO OUT  
JUNGLE

# PRINTED WIRING BOARD

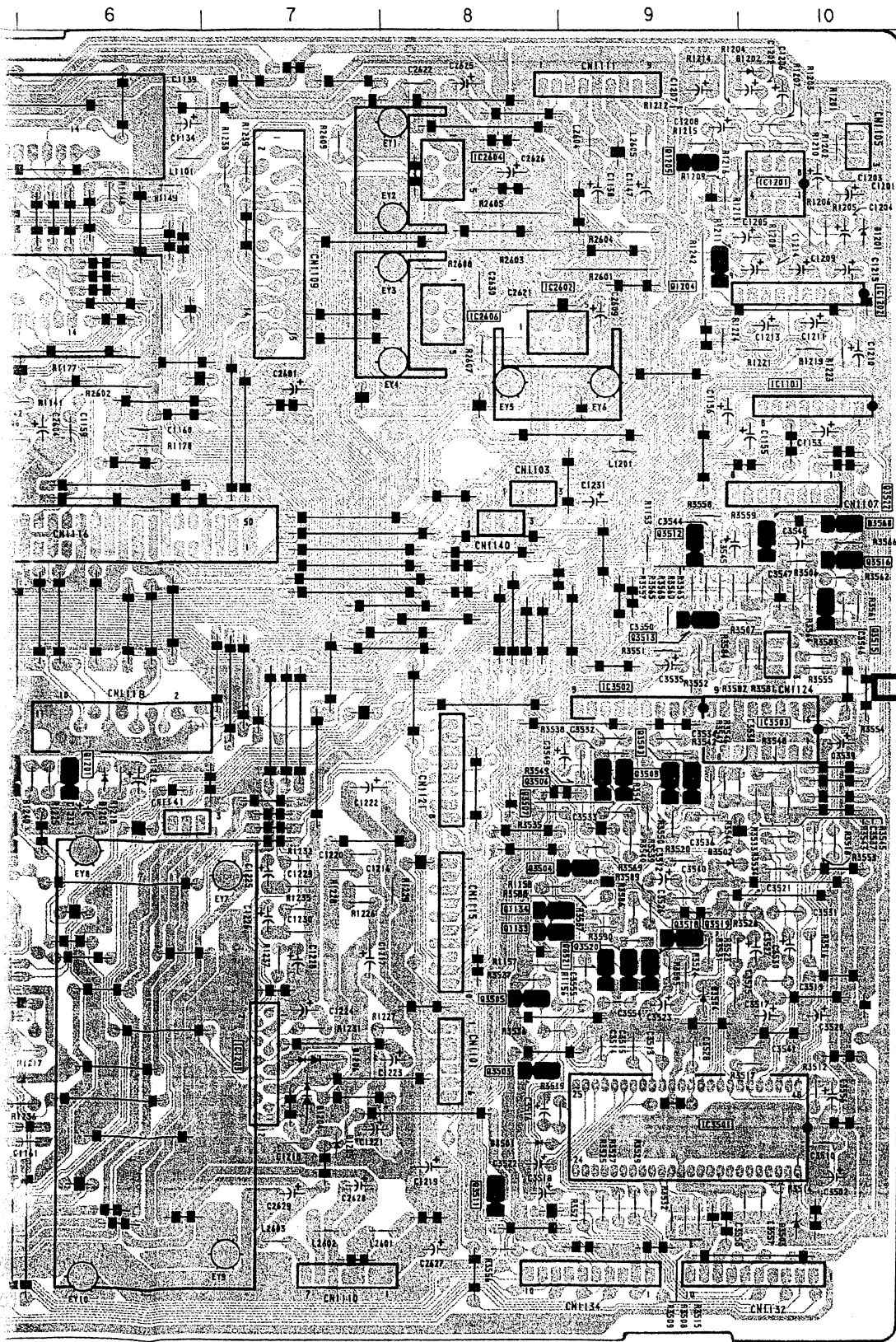
- A Board -



A Board

| IC         |      |       |      |
|------------|------|-------|------|
| IC1101     | C-10 | Q2001 | G-3  |
| IC1201     | A-10 | Q3503 | F-8  |
| IC1202     | B-10 | Q3504 | E-9  |
| IC1203     | F-7  | Q3505 | F-8  |
| IC2602     | B-8  | Q3506 | E-9  |
| IC2603     | A-4  | Q3507 | E-9  |
| IC2604     | A-8  | Q3508 | E-9  |
| IC2606     | B-8  | Q3509 | E-9  |
| IC2607     | C-5  | Q3511 | G-8  |
| IC3501     | G-9  | Q3512 | C-9  |
| IC3502     | D-9  | Q3513 | D-9  |
| IC3503     | D-10 | Q3514 | C-10 |
|            |      | Q3515 | D-10 |
|            |      | Q3516 | C-10 |
|            |      | Q3517 | F-2  |
|            |      | Q3518 | F-9  |
|            |      | Q3519 | F-9  |
|            |      | Q3520 | F-9  |
|            |      | Q3521 | F-9  |
|            |      | Q3522 | C-10 |
| TRANSISTOR |      | DIODE |      |
| Q1101      | E-2  | D1101 | F-4  |
| Q1102      | D-1  | D1102 | F-1  |
| Q1103      | F-1  | D1103 | F-1  |
| Q1104      | D-1  | D1104 | E-1  |
| Q1105      | D-1  | D1105 | E-1  |
| Q1106      | F-1  | D1106 | B-1  |
| Q1107      | E-1  | D1107 | C-1  |
| Q1108      | E-1  | D1108 | D-2  |
| Q1110      | B-5  | D1130 | F-5  |
| Q1112      | B-5  | D1131 | F-3  |
| Q1113      | C-5  | D1132 | E-2  |
| Q1114      | C-1  | D1201 | B-10 |
| Q1115      | C-1  | D1202 | A-10 |
| Q1116      | B-1  | D1203 | E-6  |
| Q1117      | C-2  | D1204 | G-7  |
| Q1118      | C-2  | D1206 | F-7  |
| Q1119      | B-1  | D2001 | G-3  |
| Q1130      | E-5  | D3501 | G-8  |
| Q1132      | E-5  | D3502 | E-9  |
| Q1133      | F-8  |       |      |
| Q1134      | E-8  |       |      |
| Q1135      | E-3  |       |      |
| Q1201      | E-6  |       |      |
| Q1202      | E-5  |       |      |
| Q1203      | E-5  |       |      |
| Q1204      | B-9  |       |      |
| Q1205      | A-9  |       |      |

IF BLOCK  
AUDIO OUT  
ANGLE



A Board

| IC         |      |            |
|------------|------|------------|
| IC1101     | C-10 | Q2001 G-3  |
| IC1201     | A-10 | Q3503 F-8  |
| IC1202     | B-10 | Q3504 E-9  |
| IC1203     | F-7  | Q3505 F-8  |
| IC2602     | B-8  | Q3506 E-9  |
| IC2603     | A-4  | Q3507 E-9  |
| IC2604     | A-8  | Q3508 E-9  |
| IC2606     | B-8  | Q3509 E-9  |
| IC2607     | C-5  | Q3511 G-8  |
| IC3501     | G-9  | Q3512 C-9  |
| IC3502     | D-9  | Q3513 D-9  |
| IC3503     | D-10 | Q3514 C-10 |
| TRANSISTOR |      | Q3515 D-10 |
| Q1101      | E-2  | Q3516 C-10 |
| Q1102      | D-1  | Q3517 F-2  |
| Q1103      | F-1  | Q3518 F-9  |
| Q1104      | D-1  | Q3519 F-9  |
| Q1105      | D-1  | Q3520 F-9  |
| Q1106      | F-1  | Q3521 F-9  |
| Q1107      | E-1  | Q3522 C-10 |
| Q1108      | E-1  | DIODE      |
| Q1110      | B-5  |            |
| Q1112      | B-5  |            |
| Q1113      | C-5  |            |
| Q1114      | C-1  |            |
| Q1115      | C-1  |            |
| Q1116      | B-1  |            |
| Q1117      | C-2  |            |
| Q1118      | C-2  |            |
| Q1119      | B-1  |            |
| Q1130      | E-5  |            |
| Q1132      | E-5  |            |
| Q1133      | F-8  |            |
| Q1134      | E-8  |            |
| Q1135      | E-3  |            |
| Q1201      | E-6  | D1101 F-4  |
| Q1202      | E-5  | D1102 F-1  |
| Q1203      | E-5  | D1103 F-1  |
| Q1204      | B-9  | D1104 E-1  |
| Q1205      | A-9  | D1105 E-1  |
|            |      | D1106 B-1  |
|            |      | D1107 C-1  |
|            |      | D1108 D-2  |
|            |      | D1130 F-5  |
|            |      | D1131 F-3  |
|            |      | D1132 E-2  |
|            |      | D1201 B-10 |
|            |      | D1202 A-10 |
|            |      | D1203 E-6  |
|            |      | D1204 G-7  |
|            |      | D1206 F-7  |
|            |      | D2001 G-3  |
|            |      | D3501 G-8  |
|            |      | D3502 E-9  |



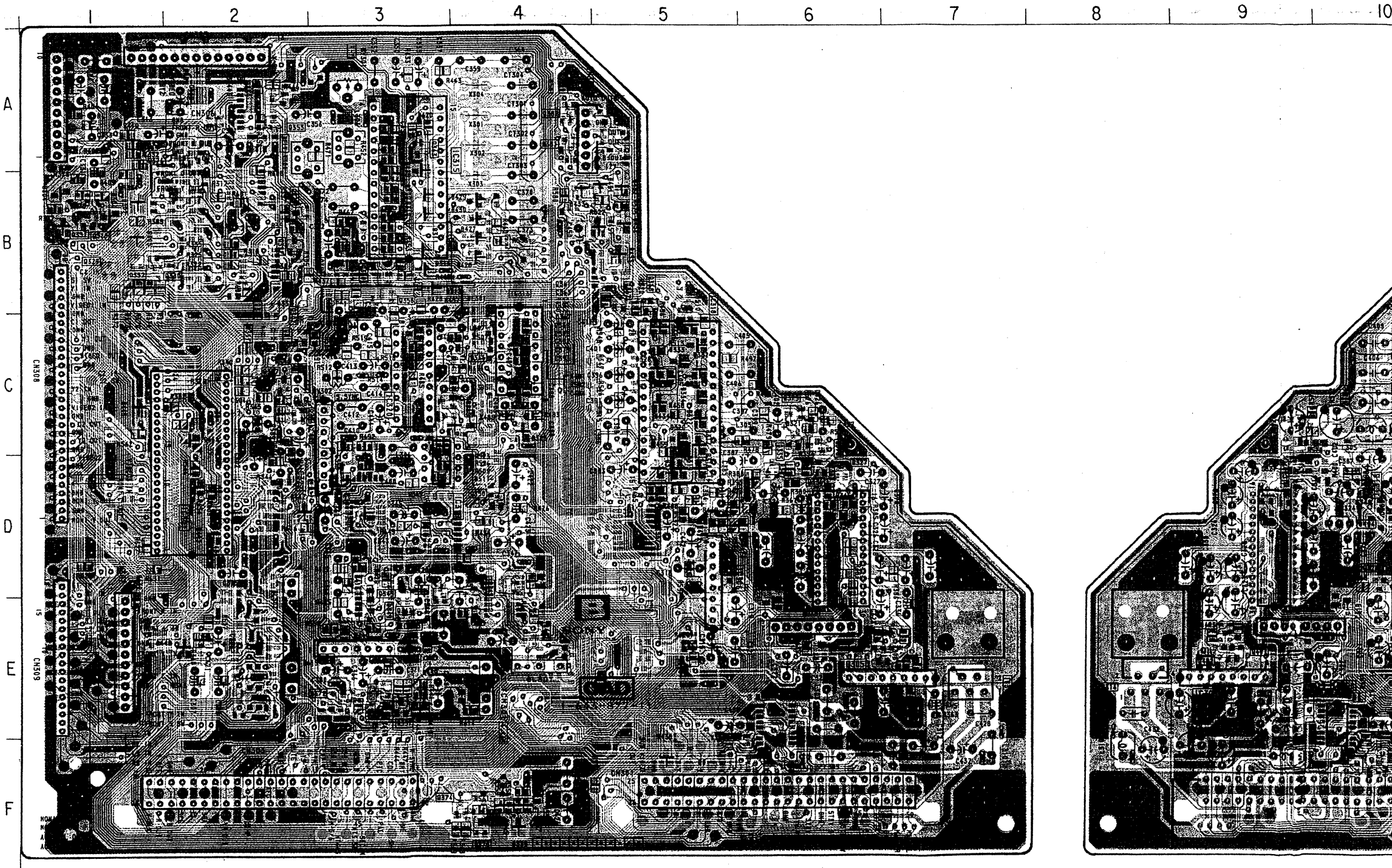
**B** VIDEO-SW, AUDIO-SW, SHARPNESS,  
DINMIC PIC, CHROMA DECODER  
R, G, B INTERFACE

PRINTED WIRING BOARD

- B Board (Conductor Side) -

B Board

| IC         |      | Q328  | B-1  | Q391              | B-12 | D333    | C-5  |
|------------|------|-------|------|-------------------|------|---------|------|
| IC301      | D-2  | Q329  | B-1  | Q392              | B-12 | D334    | C-5  |
| IC302      | B-13 | Q330  | B-1  | Q393              | A-11 | D335    | B-11 |
| IC303      | A-13 | Q331  | B-1  | Q394              | A-11 | D336    | C-11 |
| IC304      | B-13 | Q332  | B-1  | Q395              | A-11 | D337    | C-11 |
| IC305      | E-6  | Q335  | D-6  | Q396              | A-11 | D338    | C-11 |
| IC306      | D-5  | Q336  | D-6  | Q397              | D-13 | D339    | F-4  |
| IC307      | D-6  | Q337  | E-6  | Q398              | D-13 | D340    | F-12 |
| IC308      | E-10 | Q338  | E-10 | Q399              | F-13 | D341    | D-9  |
| IC309      | E-12 | Q339  | B-11 | Q400              | E-4  | D427    | B-4  |
| IC310      | E-12 | Q340  | D-3  | Q401              | E-9  | D428    | B-4  |
| IC311      | D-12 | Q341  | B-12 | Q402              | E-9  | D429    | B-4  |
| IC312      | D-13 | Q342  | B-11 | Q403              | E-9  | D430    | B-4  |
| IC313      | E-3  | Q343  | D-4  | Q404              | D-10 | D431    | B-5  |
| IC314      | E-7  | Q344  | B-12 | Q405              | E-14 | D432    | B-5  |
| IC315      | B-3  | Q345  | D-3  | Q406              | E-14 | D433    | B-4  |
| IC316      | C-4  | Q346  | D-12 | Q407              | C-12 | D434    | C-5  |
| IC317      | D-13 | Q347  | E-3  | Q408              | C-12 | D435    | B-3  |
| IC318      | C-5  | Q348  | C-12 | Q409              | C-12 | D436    | E-11 |
| IC319      | D-3  | Q349  | E-3  | Q410              | C-12 | D437    | E-11 |
| IC320      | C-3  | Q350  | D-4  | Q441              | E-11 | D439    | E-6  |
| IC321      | D-11 | Q351  | E-12 | Q442              | E-4  | D442    | D-2  |
| IC322      | C-3  | Q354  | B-3  |                   |      | D448    | E-2  |
|            |      | Q356  | D-11 |                   |      | D449    | C-12 |
|            |      | Q357  | E-3  |                   |      | D450    | C-3  |
|            |      | Q358  | B-3  |                   |      |         |      |
|            |      | Q359  | E-3  |                   |      |         |      |
| TRANSISTOR |      | DIODE |      | VARIABLE RESISTOR |      | TRIMMER |      |
| Q301       | C-2  | Q360  | B-3  | D301              | B-1  | CT303   | B-4  |
| Q302       | C-2  | Q361  | E-12 | D302              | B-1  | CT304   | A-4  |
| Q303       | B-14 | Q362  | D-12 | D303              | B-1  |         |      |
| Q304       | B-14 | Q363  | A-3  | D304              | B-1  |         |      |
| Q305       | A-14 | Q365  | C-3  | D305              | B-1  |         |      |
| Q306       | A-14 | Q366  | C-4  | D306              | E-7  |         |      |
| Q307       | F-13 | Q367  | B-5  | D307              | C-4  |         |      |
| Q308       | B-14 | Q368  | B-5  | D308              | D-3  |         |      |
| Q309       | F-13 | Q369  | B-11 | D309              | B-3  |         |      |
| Q310       | B-14 | Q370  | B-11 | D310              | B-3  |         |      |
| Q311       | B-14 | Q371  | E-6  | D311              | B-3  |         |      |
| Q312       | F-13 | Q372  | E-3  | D312              | D-5  |         |      |
| Q313       | C-2  | Q373  | F-4  | D313              | B-3  |         |      |
| Q314       | F-13 | Q374  | F-4  | D314              | B-3  |         |      |
| Q315       | B-14 | Q375  | F-12 | D315              | D-12 |         |      |
| Q316       | C-2  | Q376  | F-12 | D317              | C-5  |         |      |
| Q317       | F-13 | Q377  | F-12 | D318              | D-5  |         |      |
| Q318       | F-13 | Q378  | C-6  | D319              | D-5  |         |      |
| Q319       | E-14 | Q379  | C-6  | D320              | C-5  |         |      |
| Q320       | D-13 | Q380  | E-13 | D321              | C-6  |         |      |
| Q321       | D-13 | Q381  | A-4  | D322              | C-5  |         |      |
| Q322       | B-2  | Q382  | A-4  | D323              | C-4  |         |      |
| Q323       | B-2  | Q385  | C-13 | D324              | C-11 |         |      |
| Q324       | E-14 | Q386  | C-2  | D328              | C-5  |         |      |
| Q325       | D-13 | Q387  | C-2  | D329              | C-5  |         |      |
| Q326       | D-10 | Q389  | B-12 | D330              | B-10 |         |      |
| Q327       | D-6  | Q390  | B-12 | D331              | C-5  |         |      |
|            |      |       |      | D332              | C-5  |         |      |



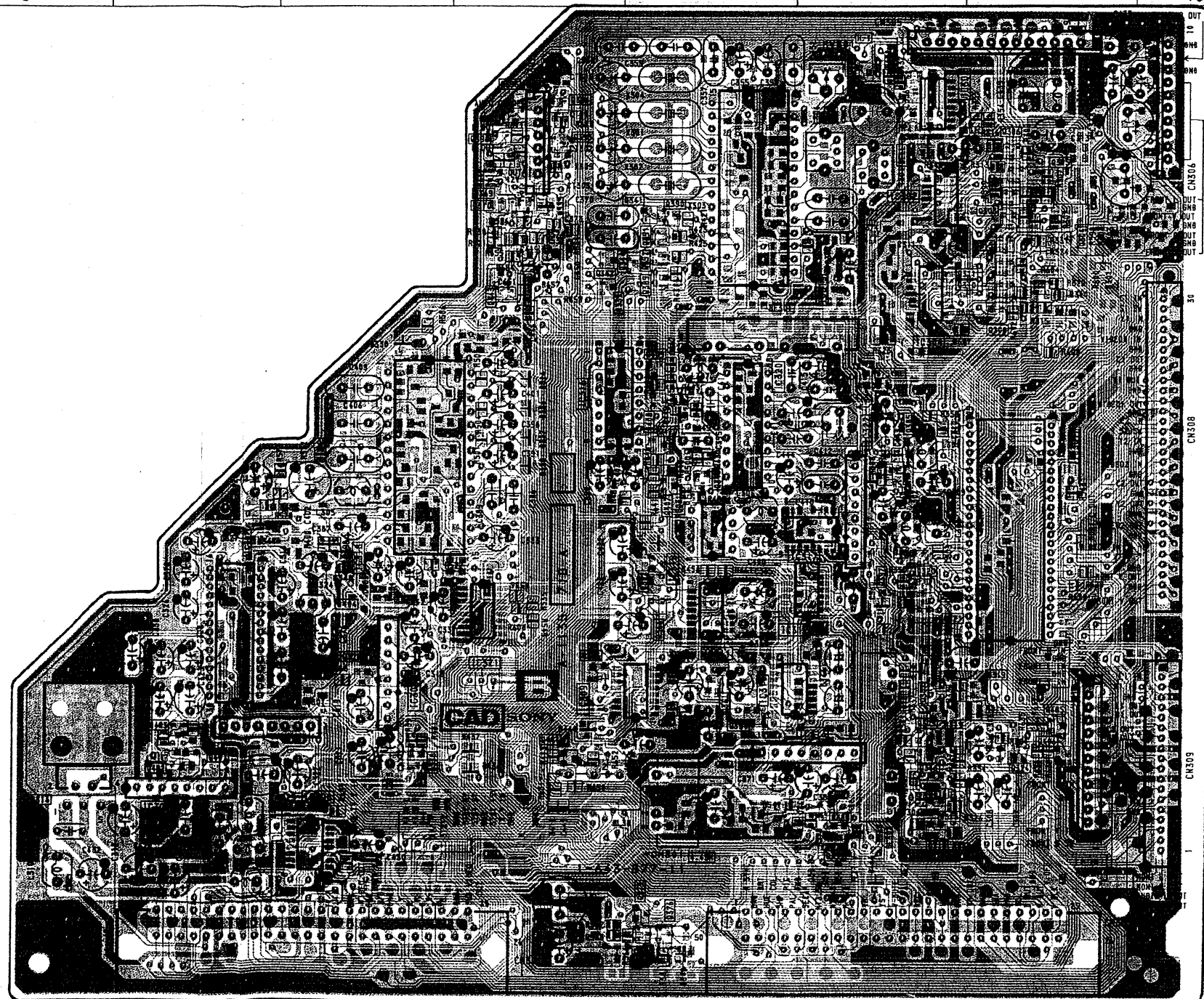
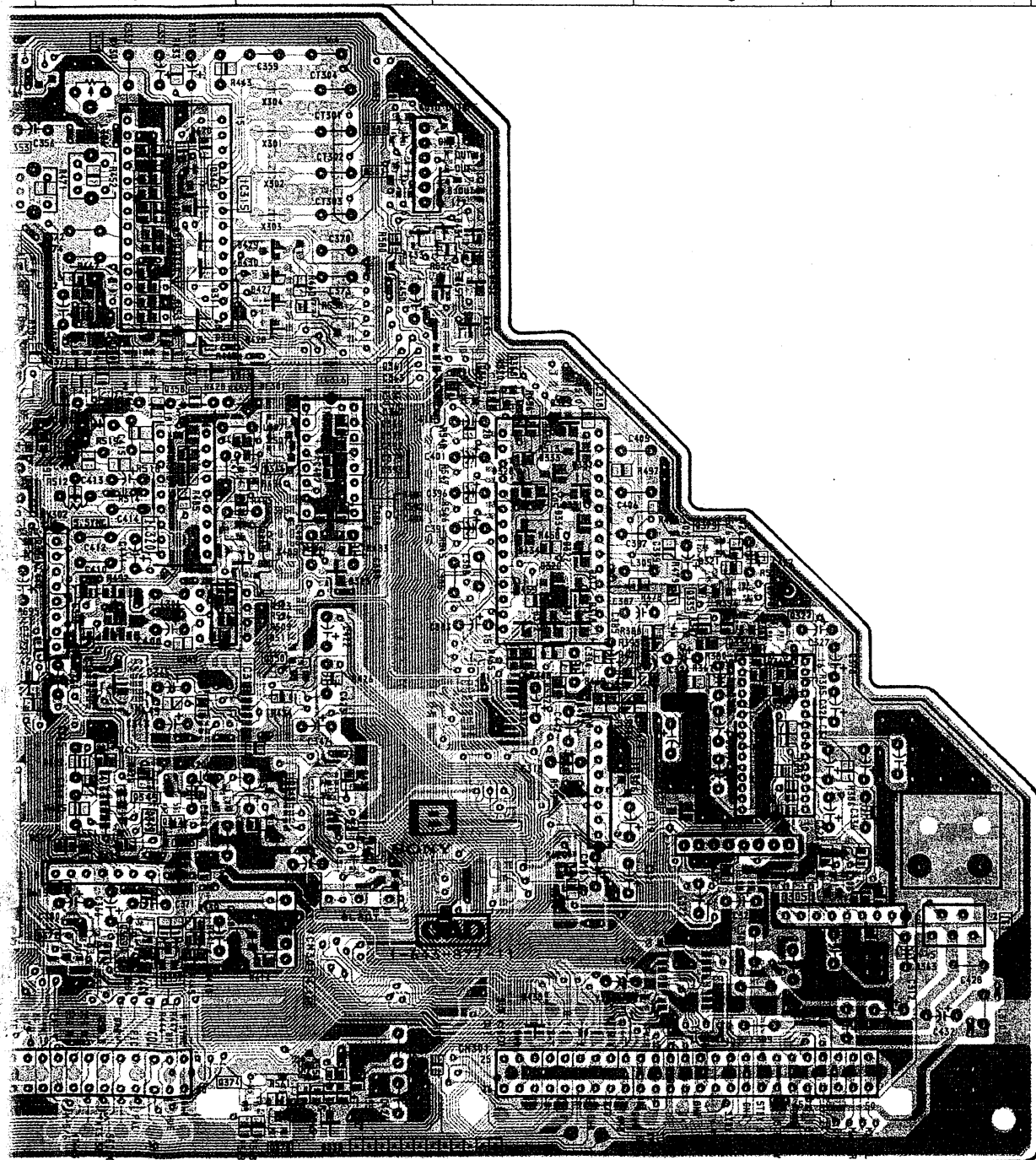
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

SHARPNESS,  
REORDER

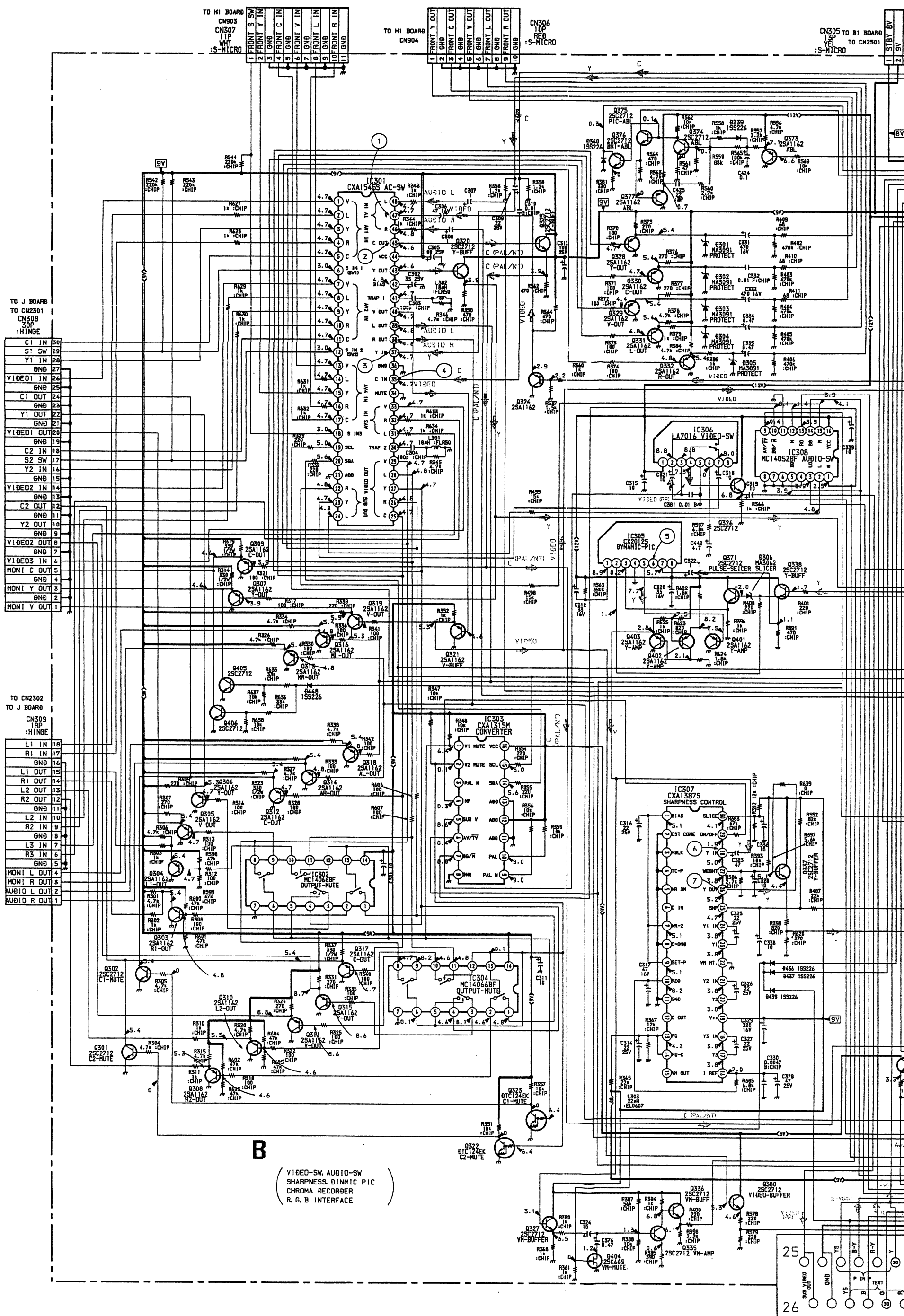
— B Board (Component Side) —

3 4 5 6 7 8 9 10 11 12 13 14 15



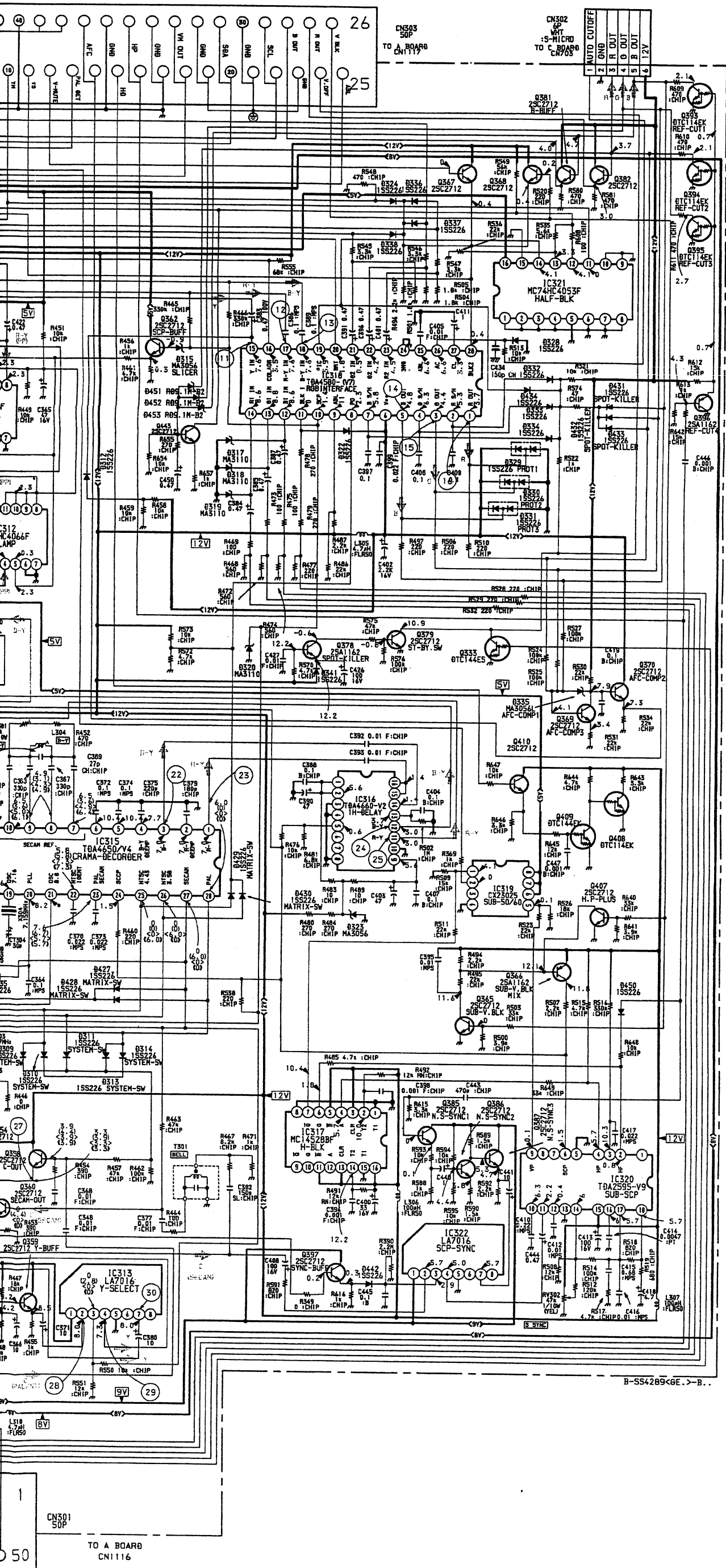


|   |   |   |   |   |   |   |   |   |    |    |
|---|---|---|---|---|---|---|---|---|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|----|----|

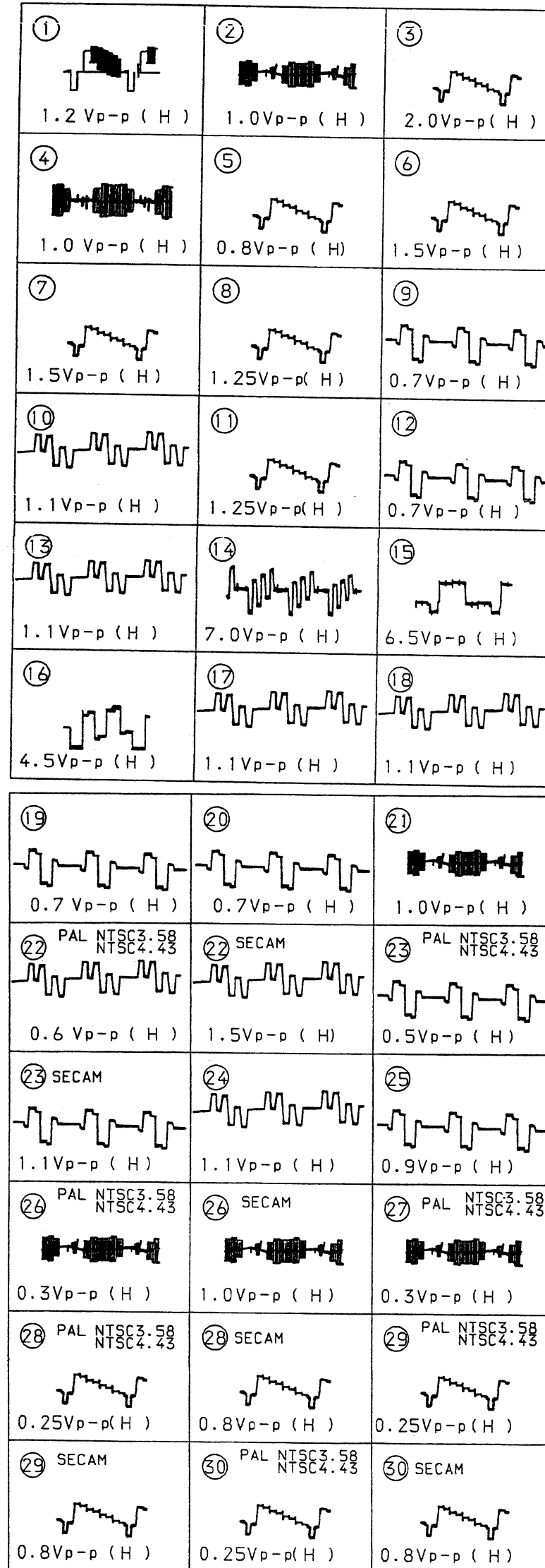




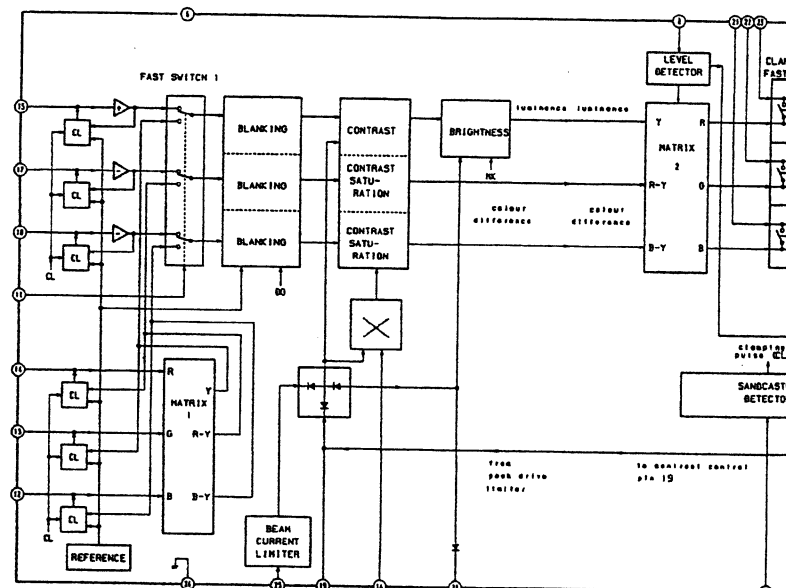




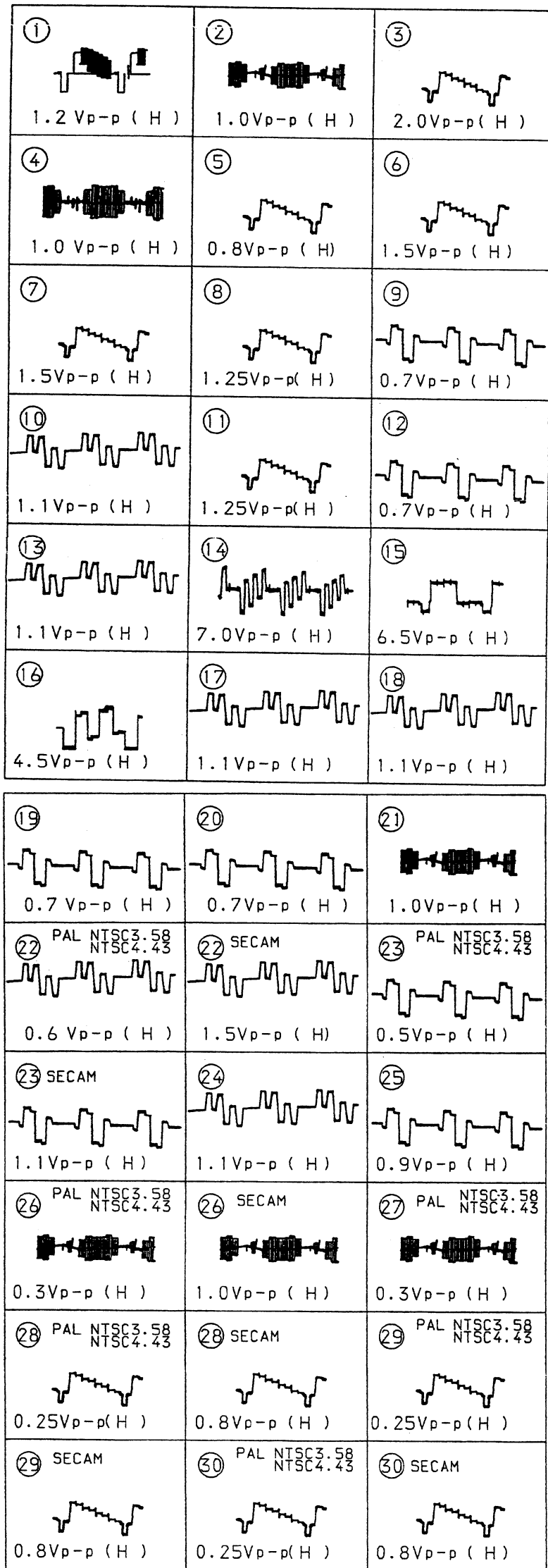
# B BOARD WAVEFORMS



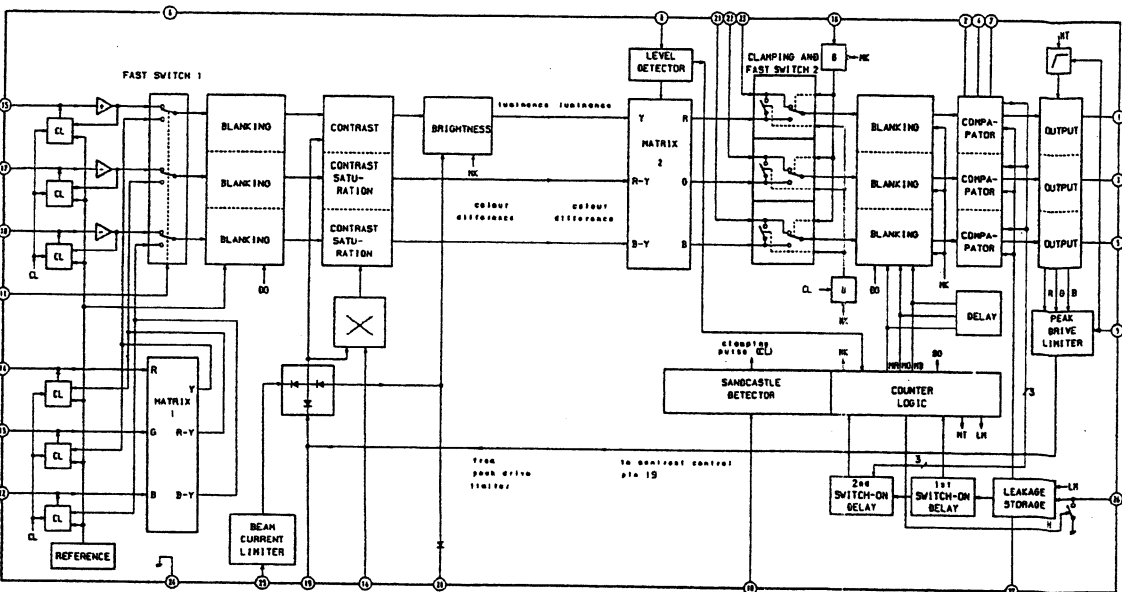
## B Board IC318 TDA4580



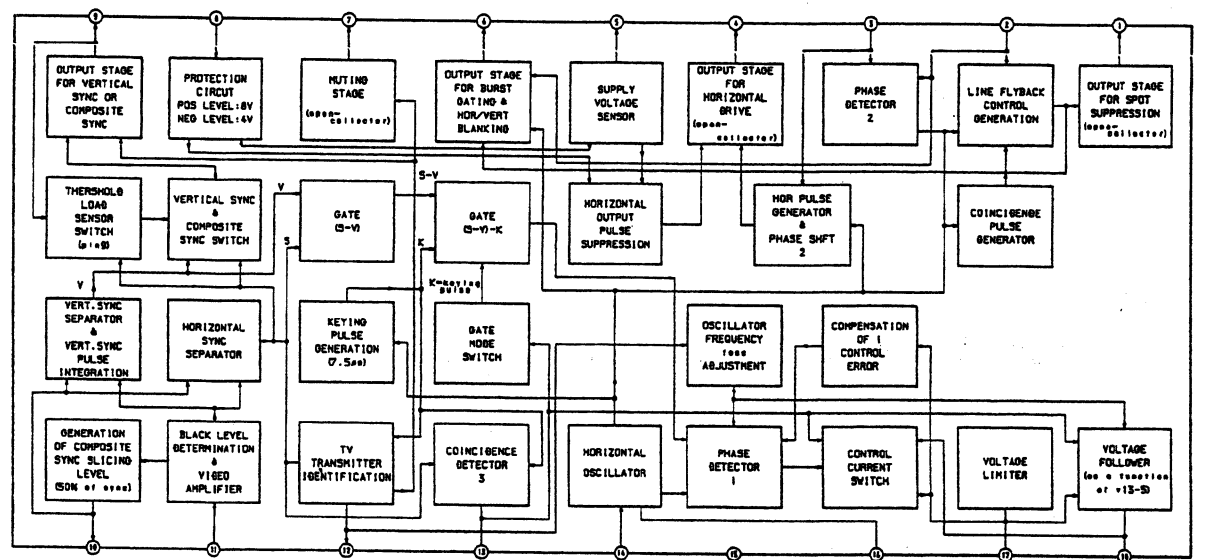
B BOARD WAVEFORMS



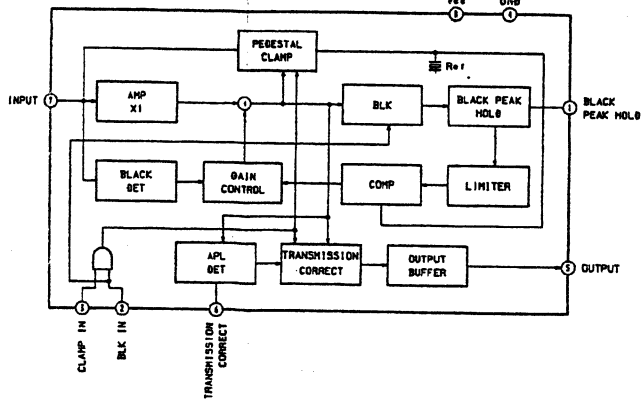
B Board IC318 TDA4580



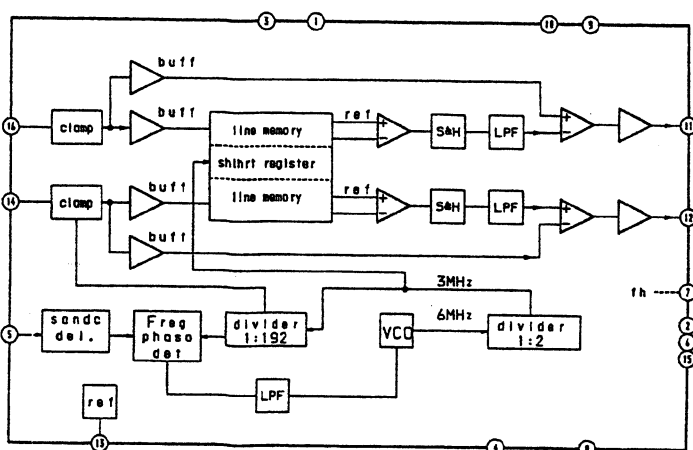
B Board IC320 TDA2595-V9



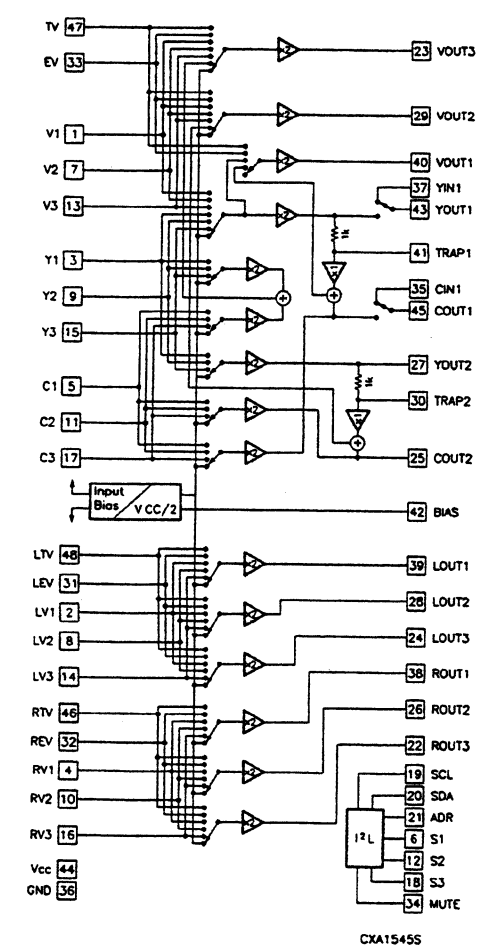
B Board IC305 CX20125



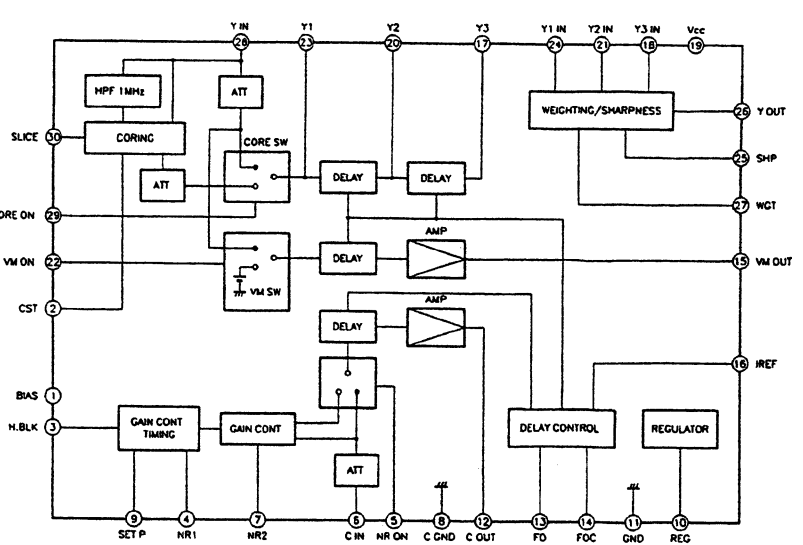
B Board IC316 TDA4660-V2



B Board IC301 CXA1545S

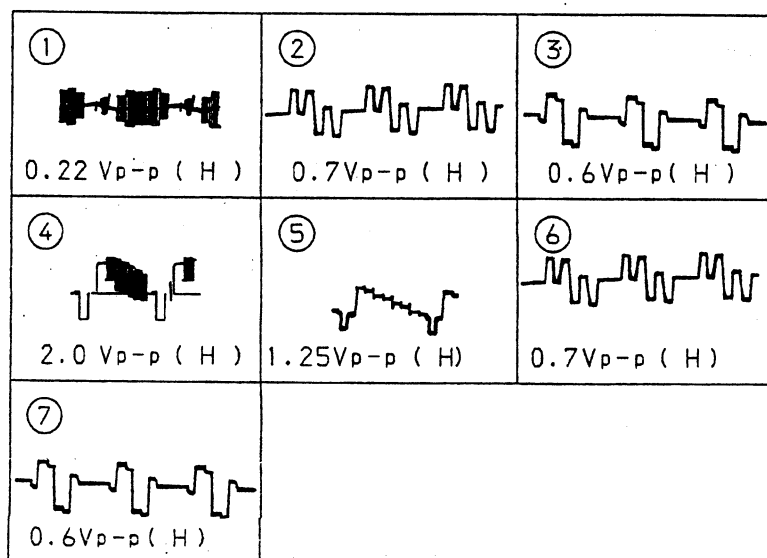


B Board IC307 CXA1387S

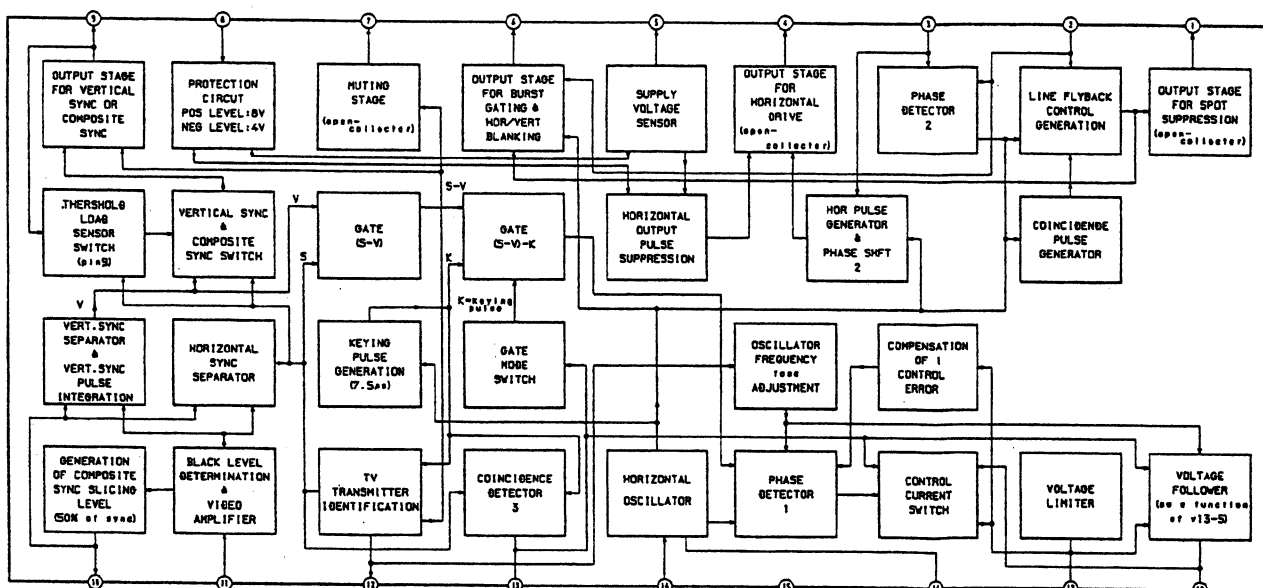


# (7) SCHEMATIC DIAGRAM OF BP BOARD

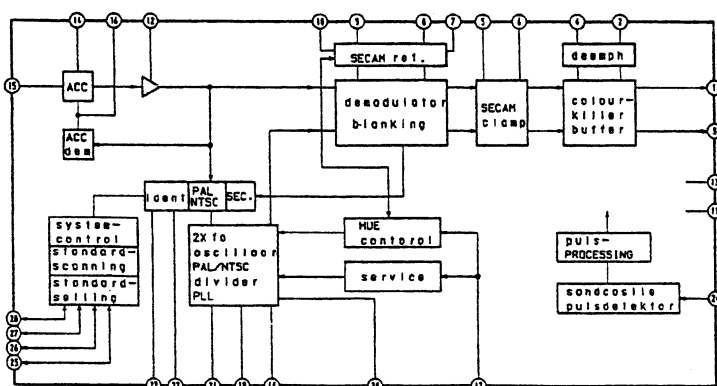
## BP BOARD WAVEFORMS



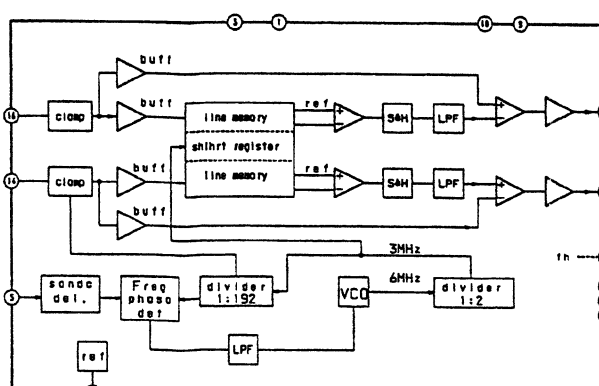
## BP Board IC3306 TDA2595-V9



## BP Board IC3302 TDA4650-V4



## BP Board IC3303 TDA4660-V2



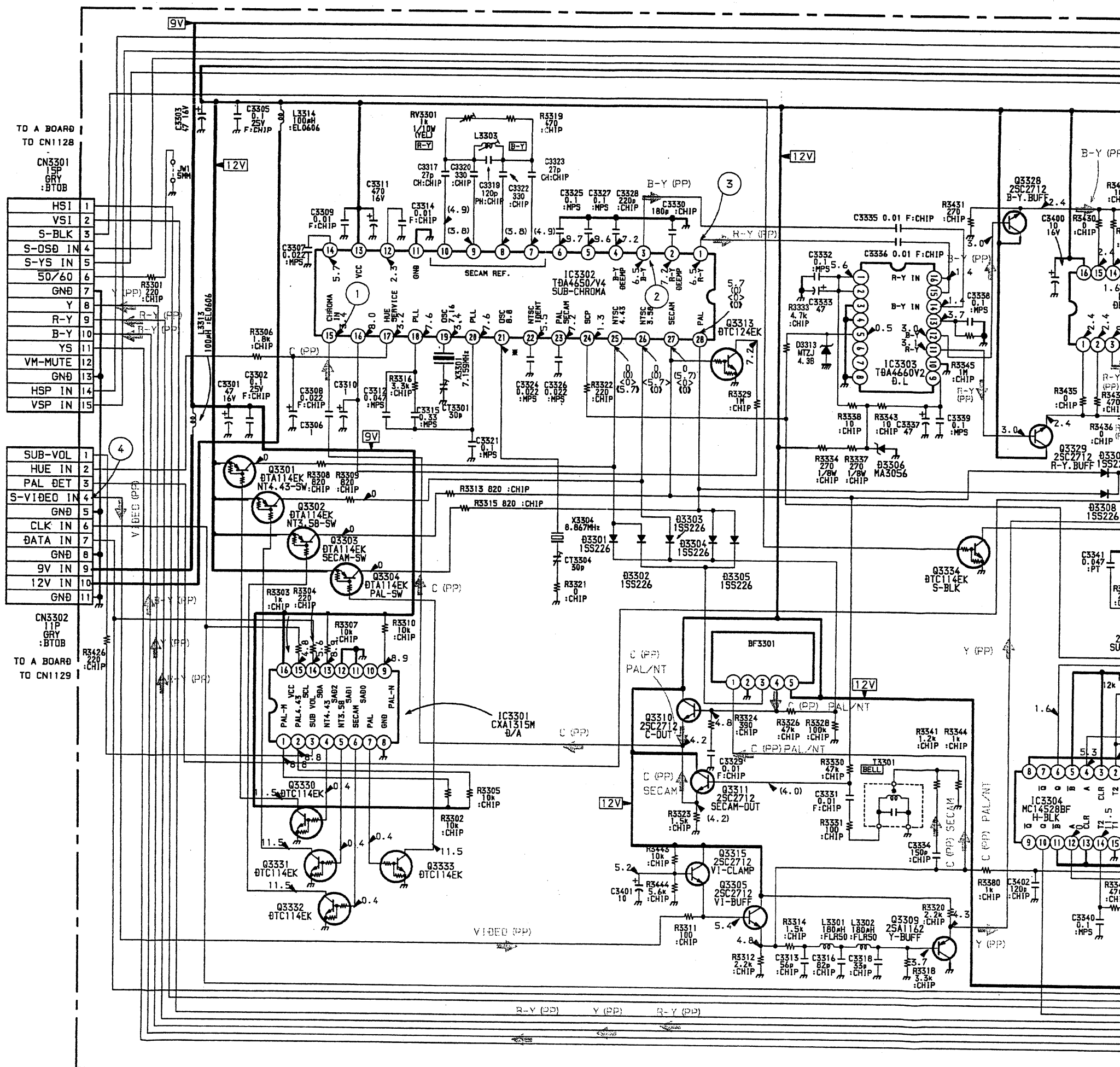
TO A BOARD  
TO CN1128  
CN3301  
15P  
GRY  
:BT0B

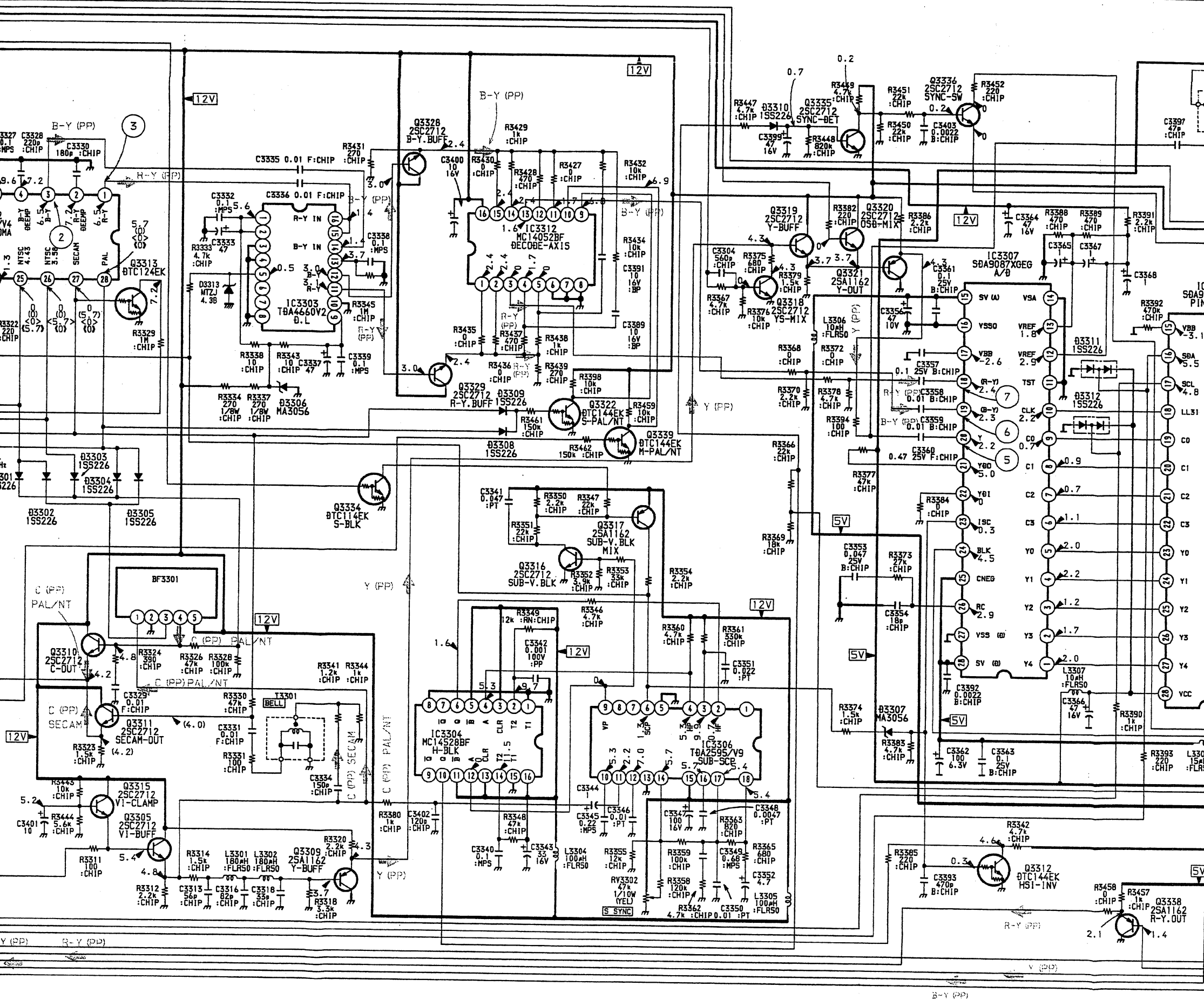
|          |    |
|----------|----|
| HSI      | 1  |
| VSI      | 2  |
| S-BLK    | 3  |
| S-OSD IN | 4  |
| S-YS IN  | 5  |
| 50/60    | 6  |
| GND      | 7  |
| Y        | 8  |
| R-Y      | 9  |
| B-Y      | 10 |
| YS       | 11 |
| VM-MUTE  | 12 |
| GND      | 13 |
| HSP IN   | 14 |
| VSP IN   | 15 |

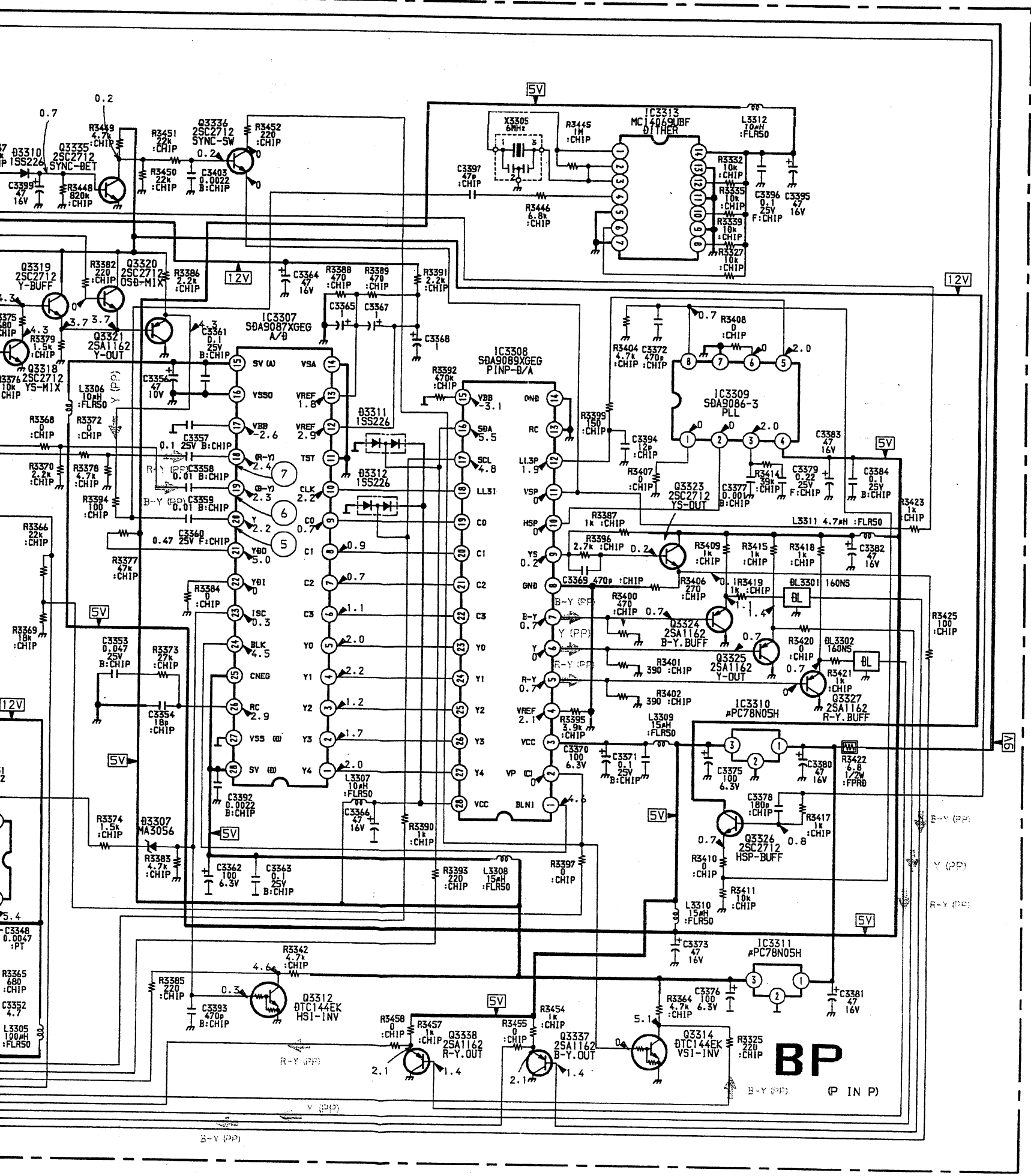
|            |    |
|------------|----|
| SUB-VOL    | 1  |
| HUE IN     | 2  |
| PAL DET    | 3  |
| S-VIDEO IN | 4  |
| GND        | 5  |
| CLK IN     | 6  |
| DATA IN    | 7  |
| GND        | 8  |
| 9V IN      | 9  |
| 12V IN     | 10 |
| GND        | 11 |

CN3302  
11P  
GRY  
:BT0B  
TO A BOARD  
TO CN1129









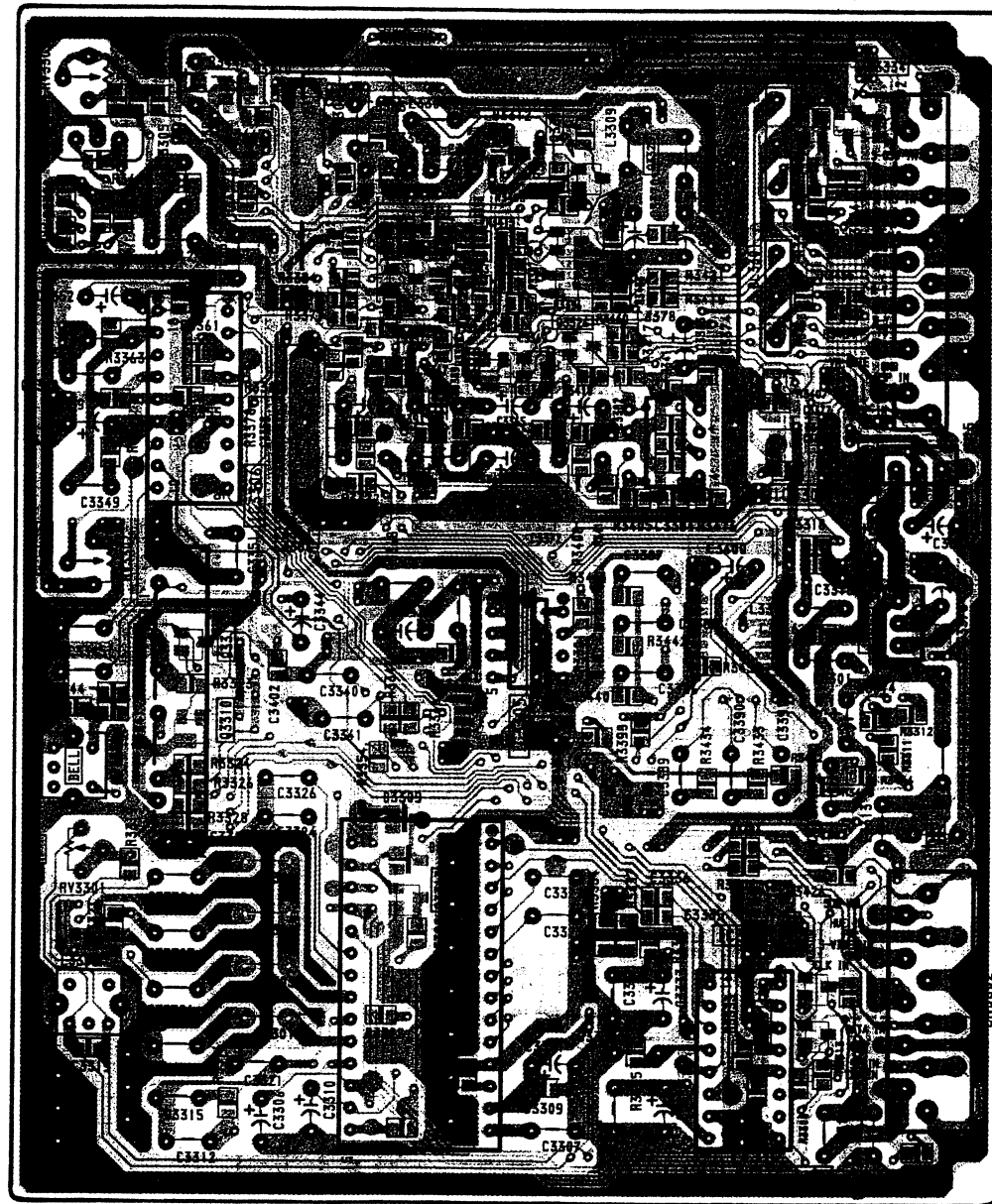
B-SS4289<GE.>-BP.



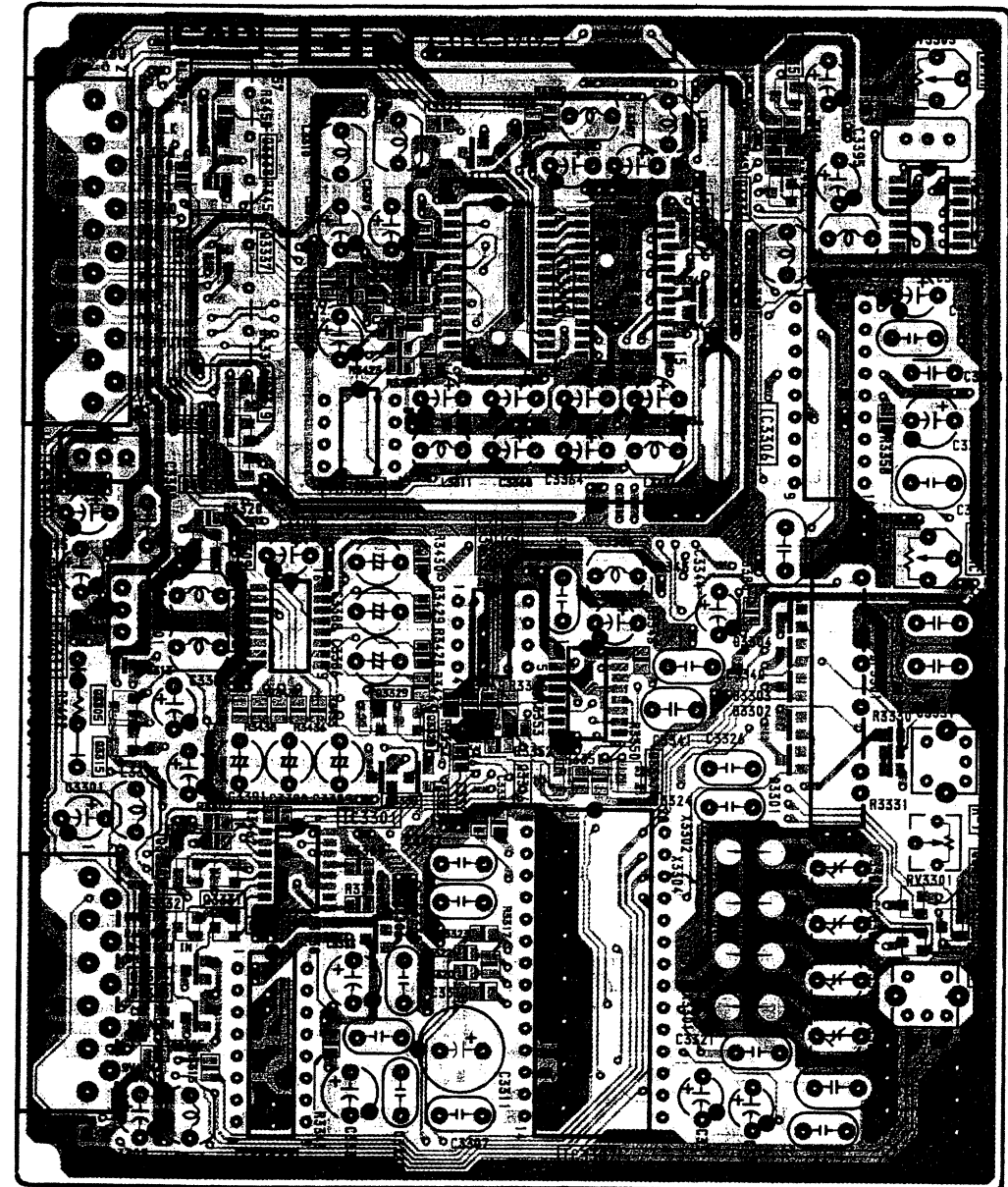
**B<sub>P</sub>** [P IN P]

## PRINTED WIRING BOARD

– BP Board (Conductor Side) –



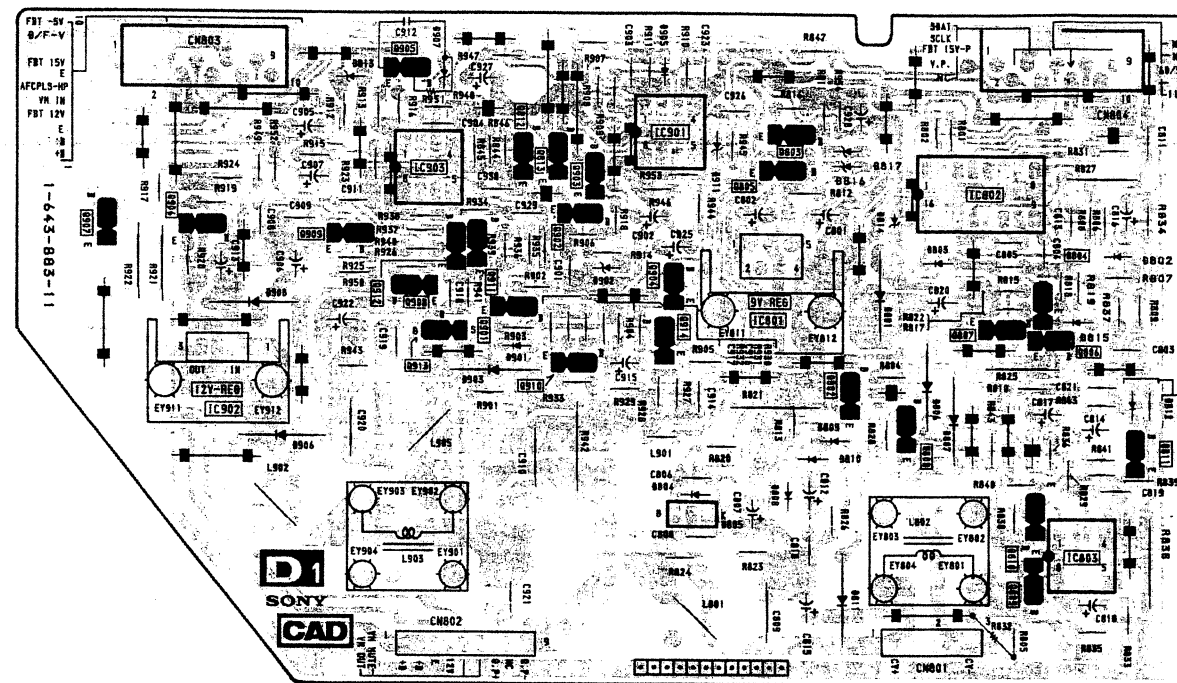
– BP Board (Component Side) –



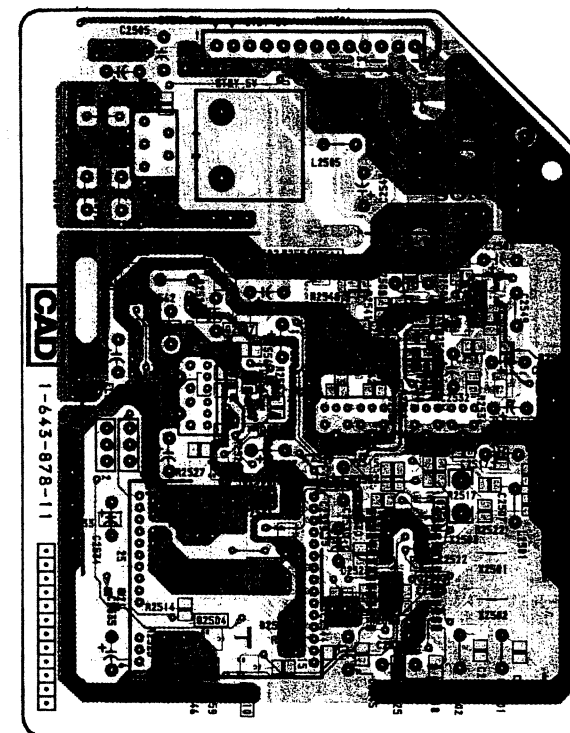
**D1** [DYNAMIC CONVERGENCE  
QUADRUPOLE]**Vc** [V PIN OUT]**B1** [DIGITAL COMB FILTER]**VM** [VM OUT]

## PRINTED WIRING BOARDS

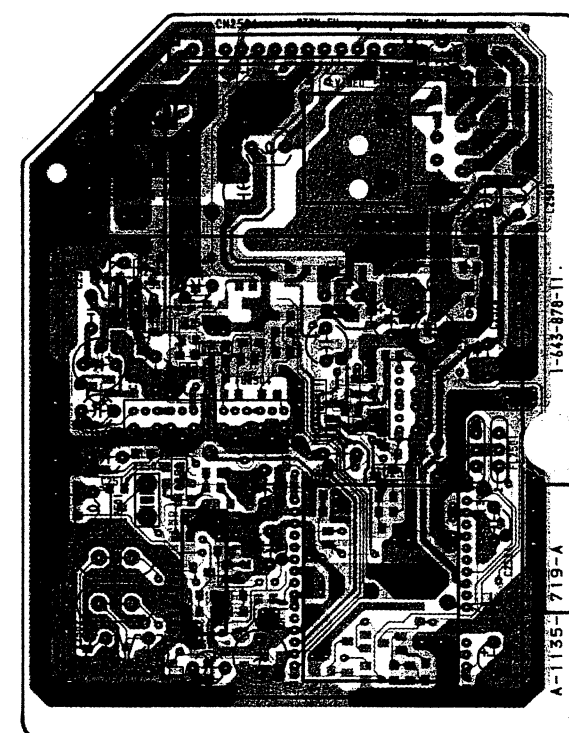
- D1 Board -



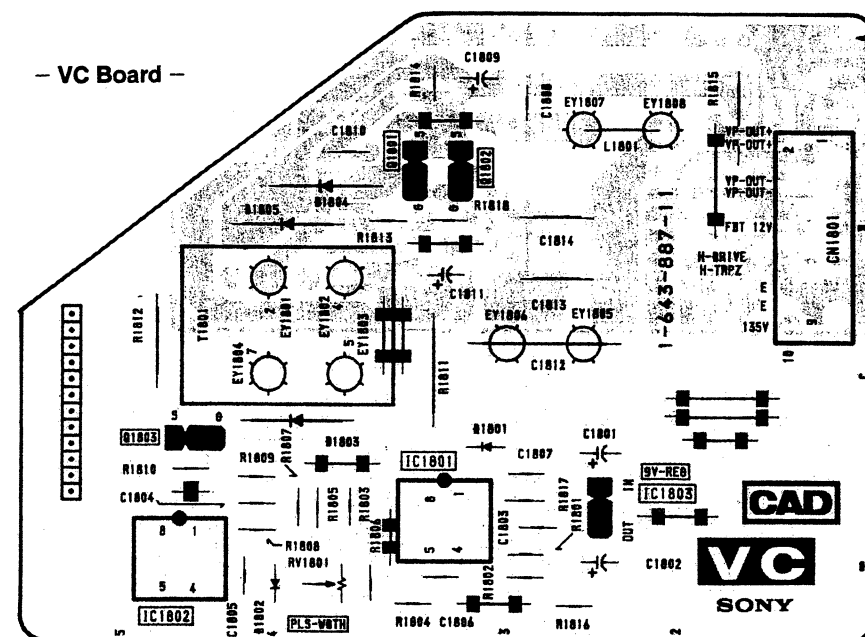
- B1 Board (Conductor Side) -



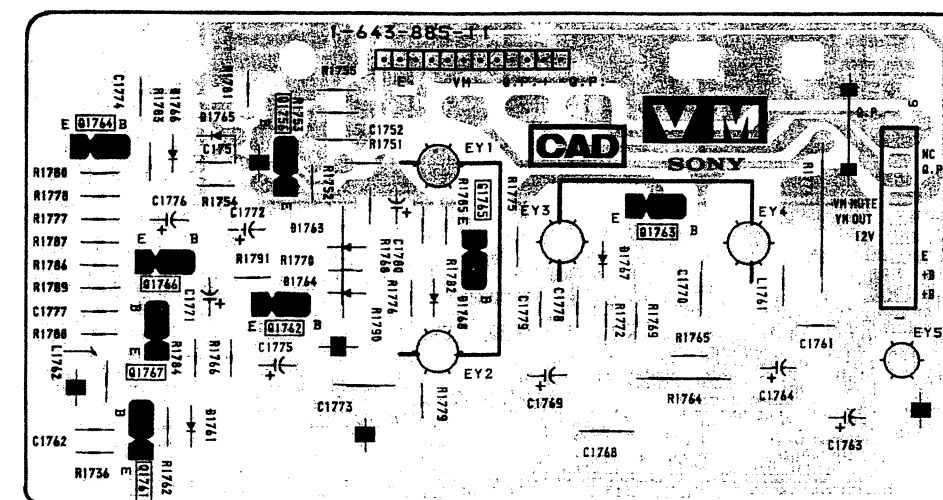
- B1 Board (Component Side) -



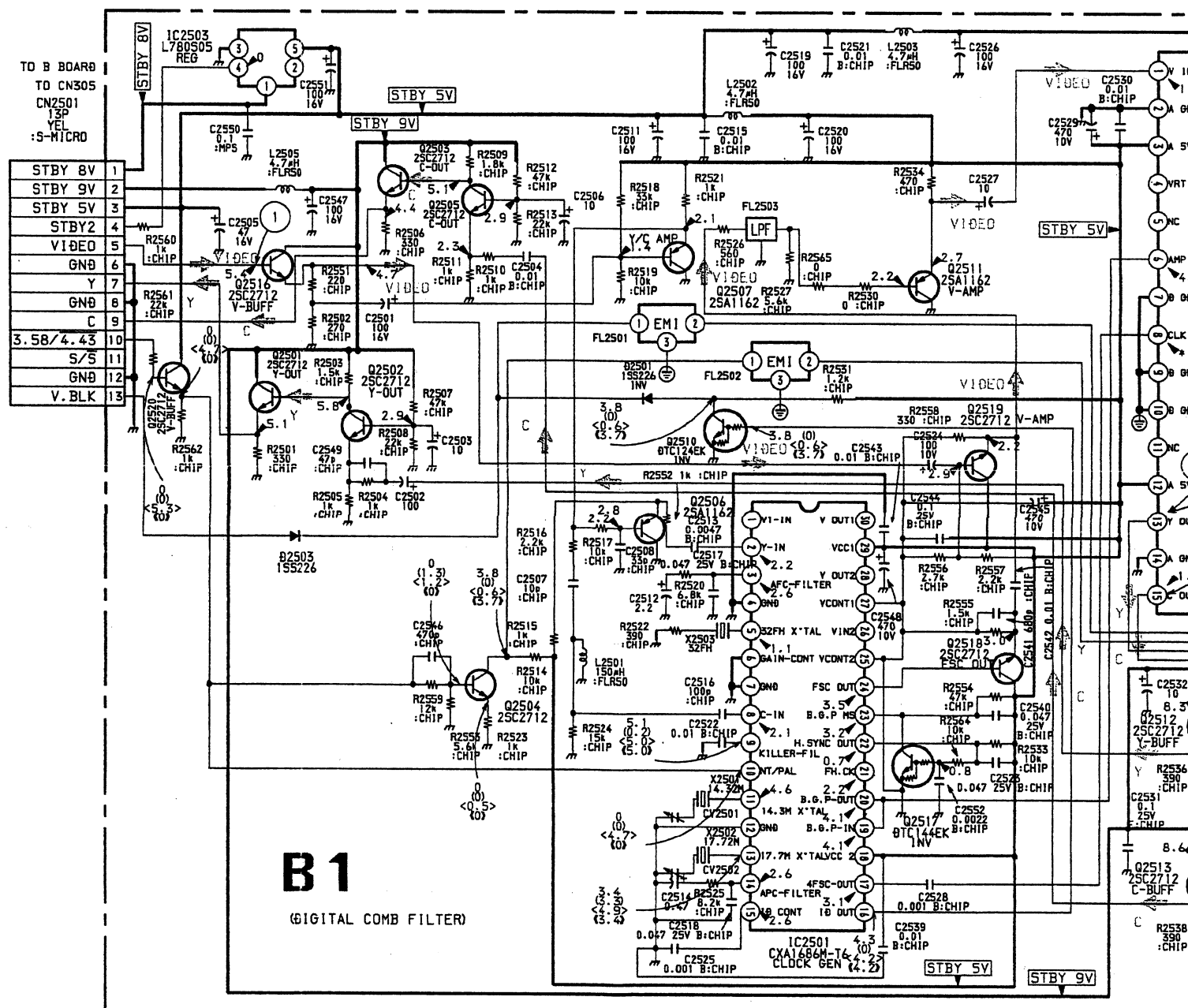
- VC Board -



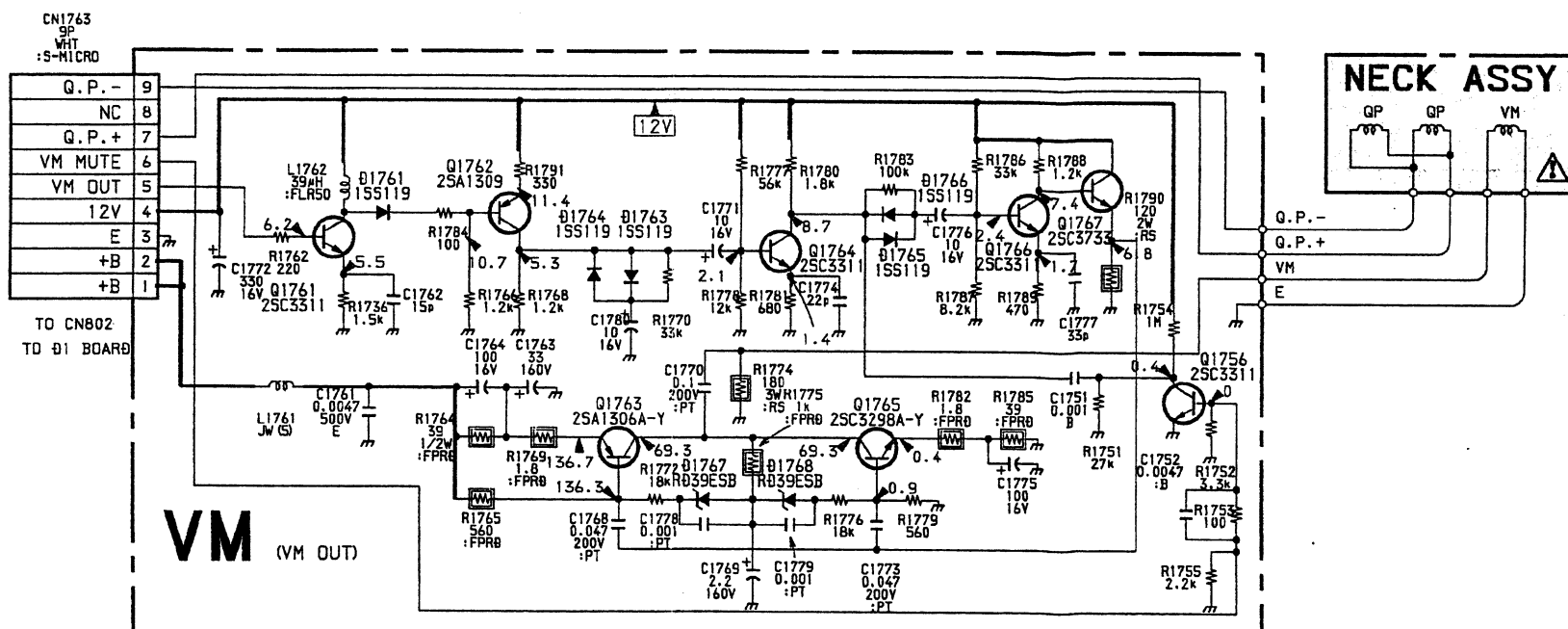
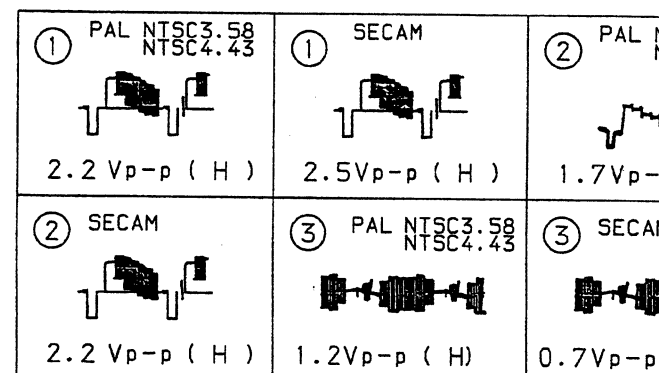
- VM Board -



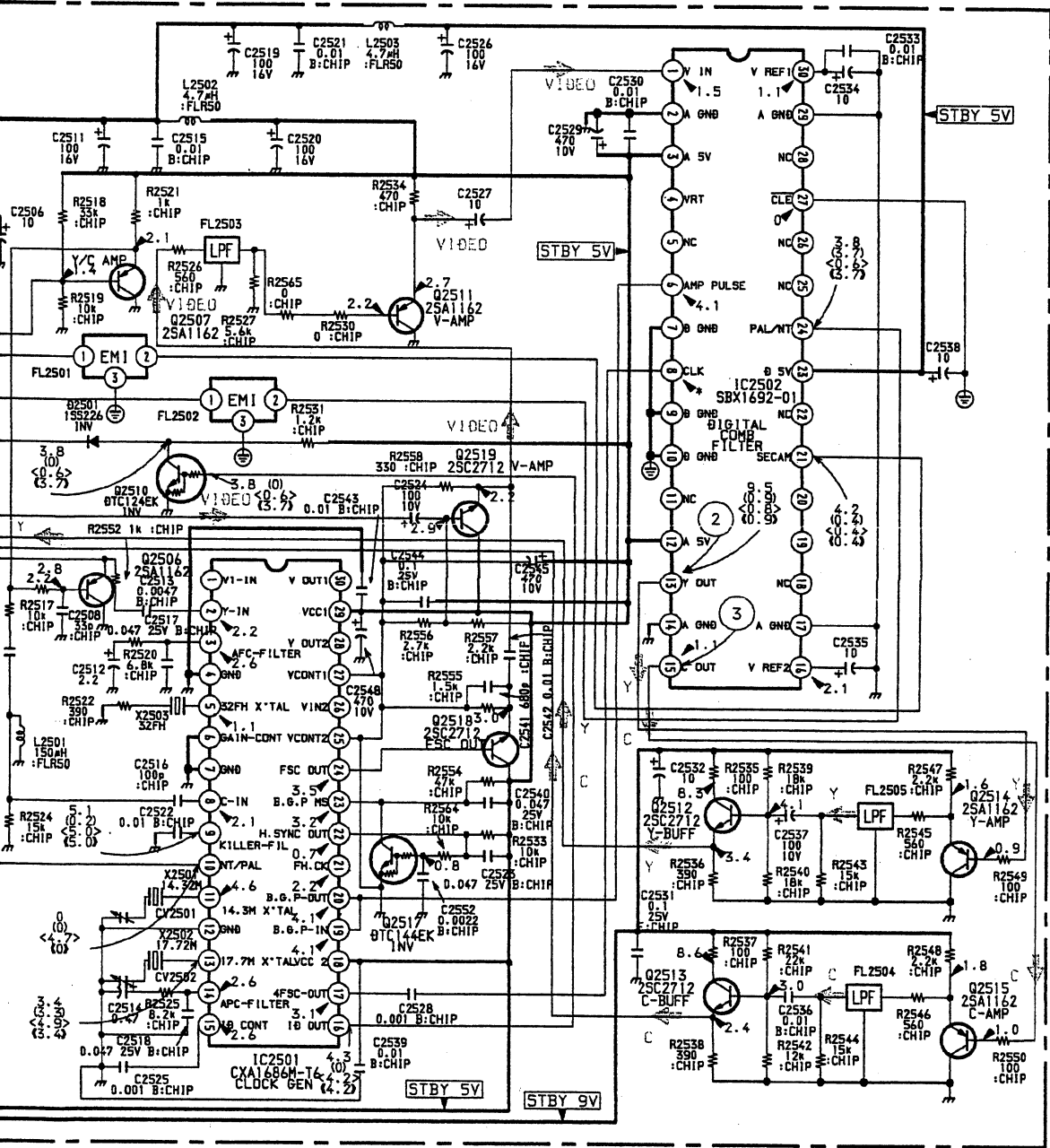
(8) SCHEMATIC DIAGRAMS OF B1, VC, VM AND D1 BOARDS



B1 BOARD WAVEFORMS

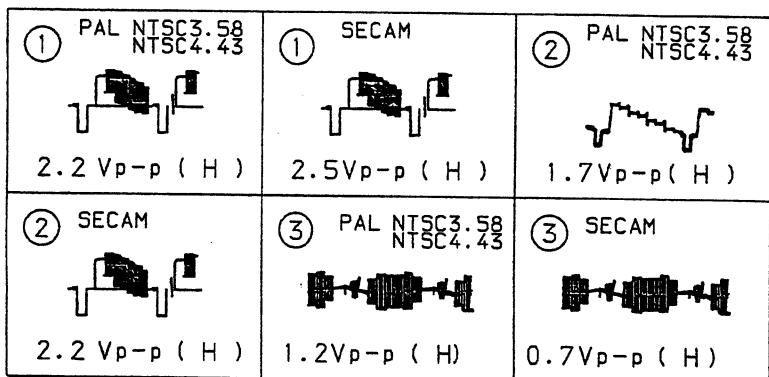


B-SS4289GE.-VM.

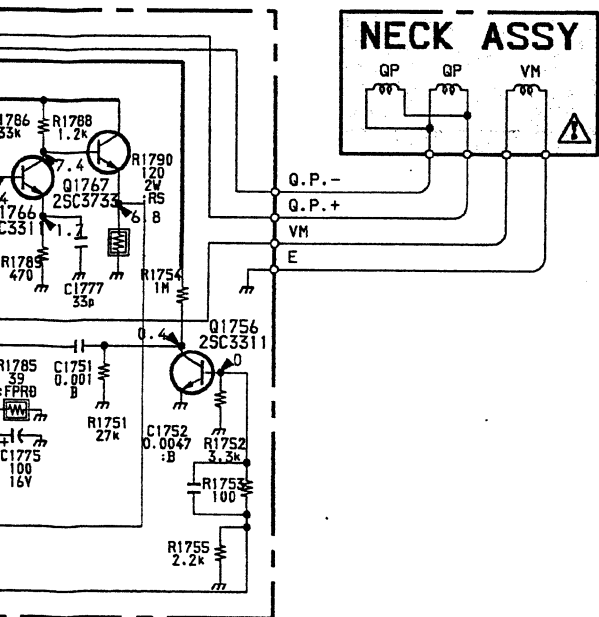
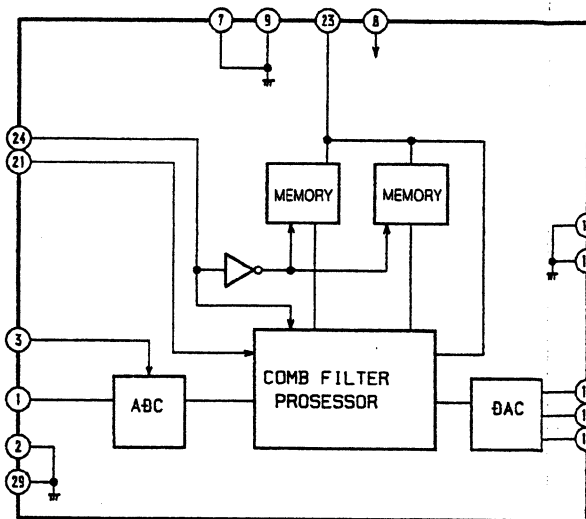


B-SS4289<GE.>-B1.

B1 BOARD WAVEFORMS



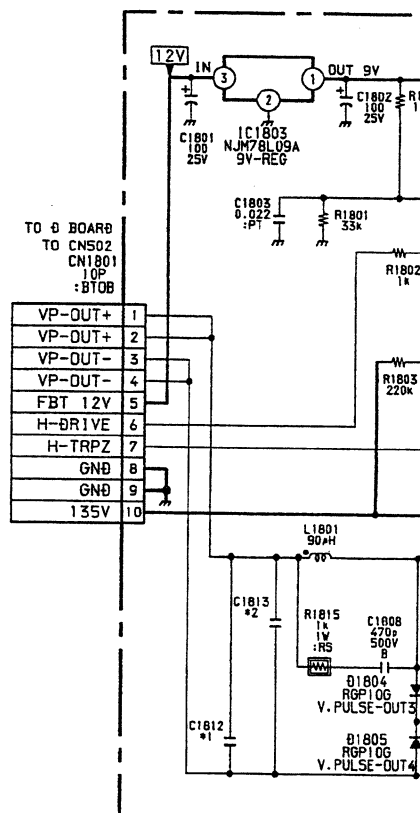
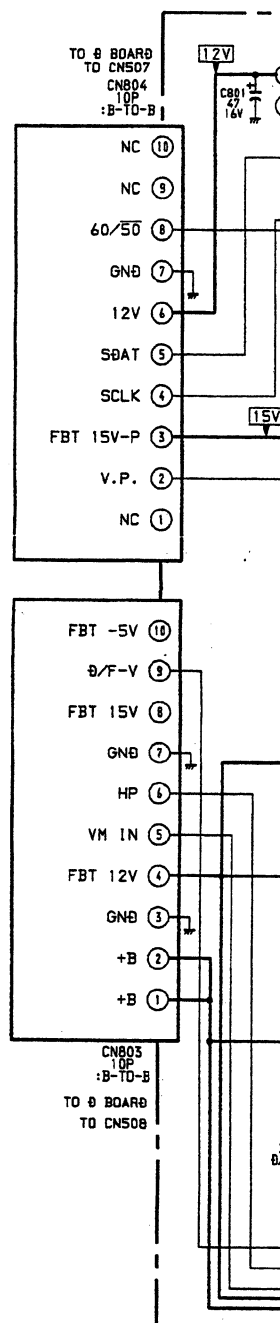
B1 Board IC2502 SBX1692-01



B-SS4289<GE.>-VM.

B1 BOARD \*MARK LIST

|          | 34inch only    | 29inch only   |
|----------|----------------|---------------|
| *1 C903  | 0.022 :MPS     | 0.22 :MPS     |
| *2 C910  | 0.24 200V :MPP | 0.1 200V :MPP |
| *3 C911  | 1 :MPS         | 0.1 :MPS      |
| *4 C912  |                | 0.0022 :MPS   |
| *5 C914  | 0.033 100V :PT | 0.01 100V :PT |
| *6 C916  | 0.0047 :PT     | JW IS         |
| *7 C917  | 0.0047 :PT     | 0.001 :PT     |
| *8 C920  | 0.022 400V :PP | 0.01 630V :PP |
| *9 C921  | 1 :MPS         | JW IS         |
| *10 C926 | 0.048 :MPS     | 0.1 :MPS      |
| *11 C927 |                | 0.33 :MPS     |
| *12 L902 | 7.5mH          | 3.3mH         |
| *13 L905 | 3.4mH          |               |
| *14 R805 | 330            |               |
| *15 R817 | 3.9K           | 2.7K          |
| *16 R825 | 47 1W :RS      | 10 1W :RS     |
| *17 R832 |                | 150 1W :RS    |
| *18 R908 | 33K            | 47K           |
| *19 R910 | 39K            | 15K           |
| *20 R915 | 6.8K           | 4.7K          |
| *21 R919 | 18K            | 47K           |
| *22 R922 | 68 1W :RS      | 1.5K 1W :RS   |
| *23 R927 | 1.5K           | 10K           |
| *24 R932 | 15K            |               |
| *25 R934 | 100K           | 68K           |
| *26 R944 | 22K            | 18K           |
| *27 R947 | 680 :FPRD      | 1.5K :FPRD    |
| *28 R948 | 68K            | 33K           |
| *29 R951 |                | 22K           |



VC BOARD \*MARK LIST

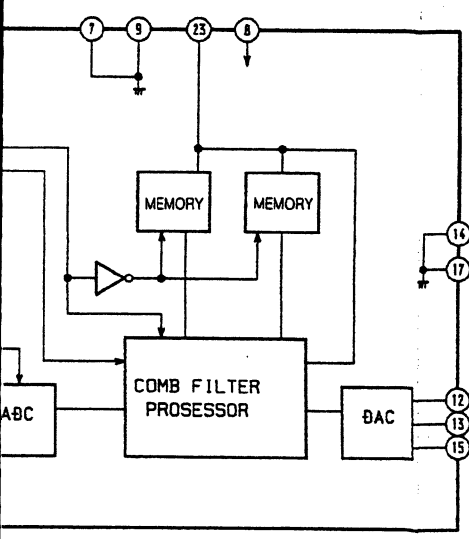
|          | 34inch only |
|----------|-------------|
| *1 C1812 | 0.24 200V   |
| *2 C1813 |             |
| *3 R1806 | 8.2K        |
| *4 R1816 | 47K         |



5V

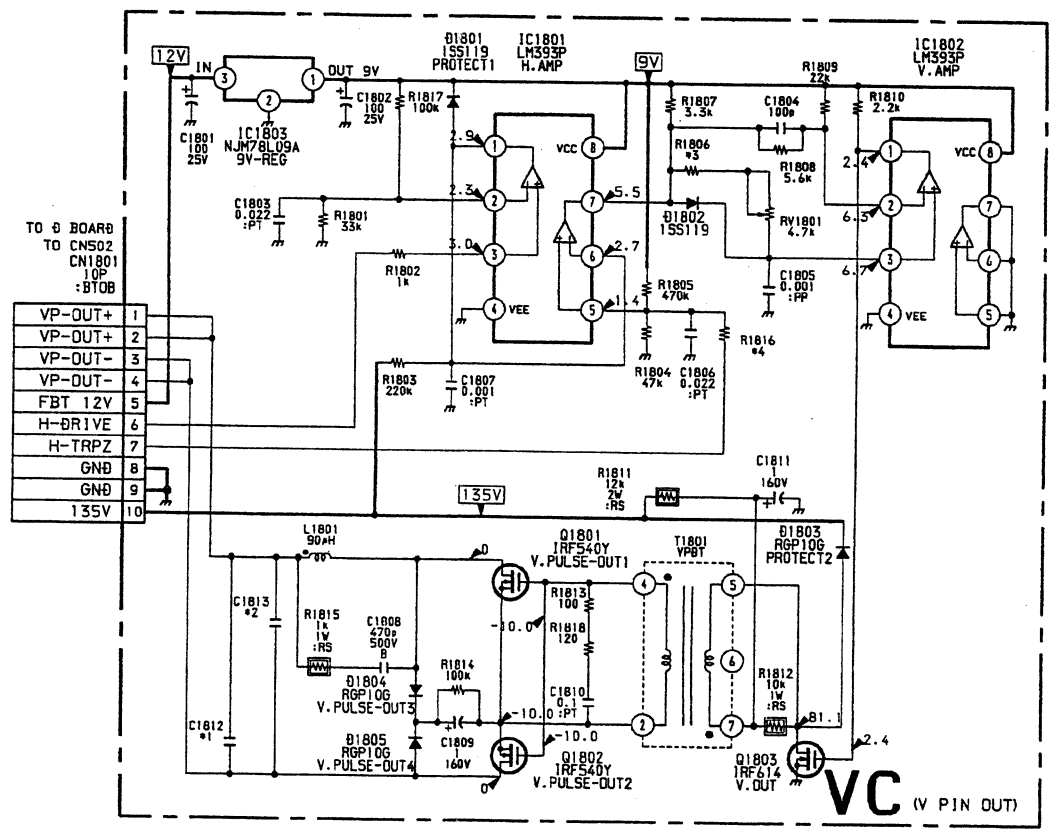
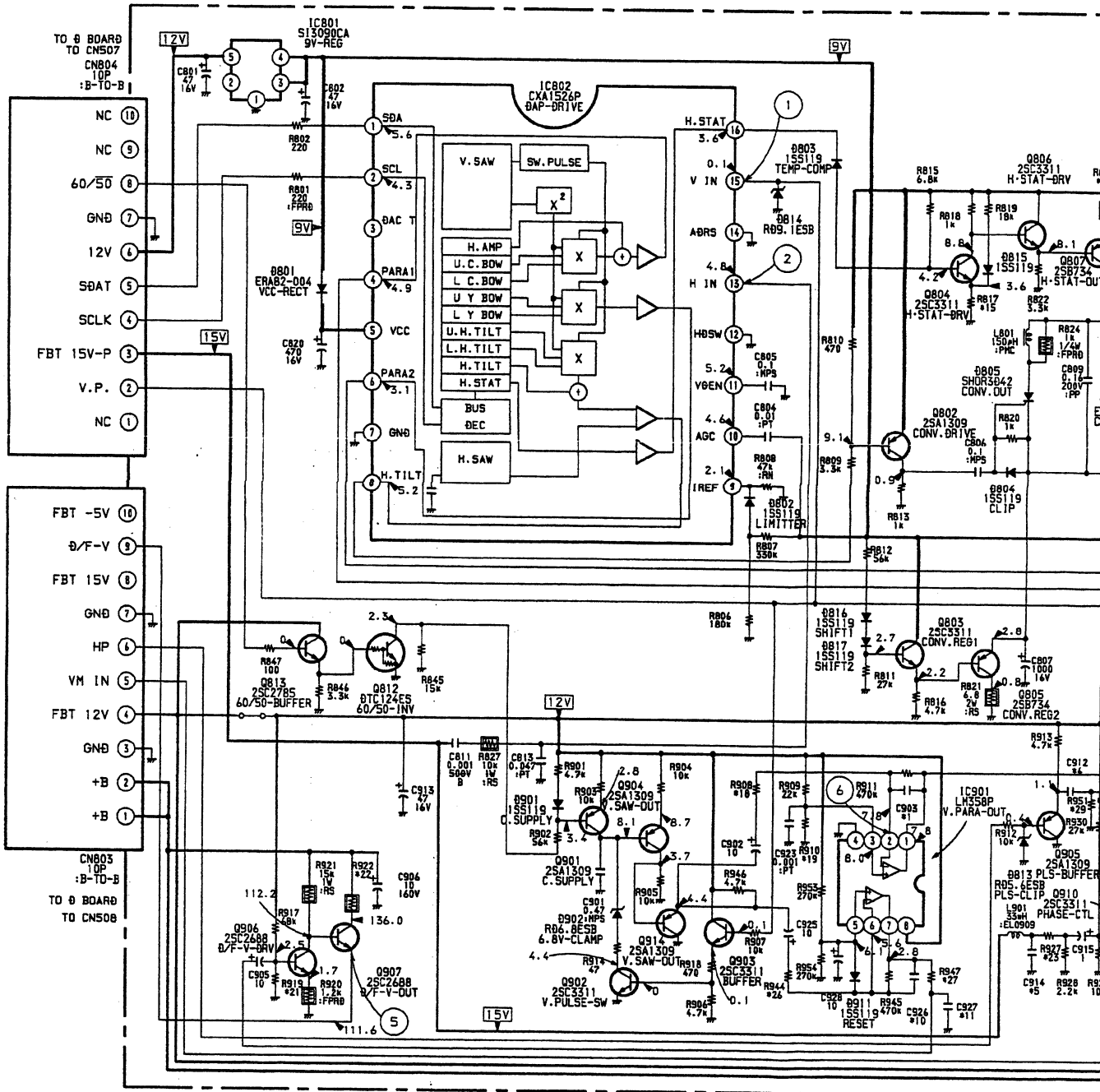
2514  
A1162  
-AMP  
0.9  
W  
R2549  
100  
:CHIP  
8  
2515  
C  
A1162  
-AMP  
1.0  
W  
R2550  
100  
:CHIP  
->-B1.

IC2502 SBX1692-01



01 BOARD \*MARK LIST

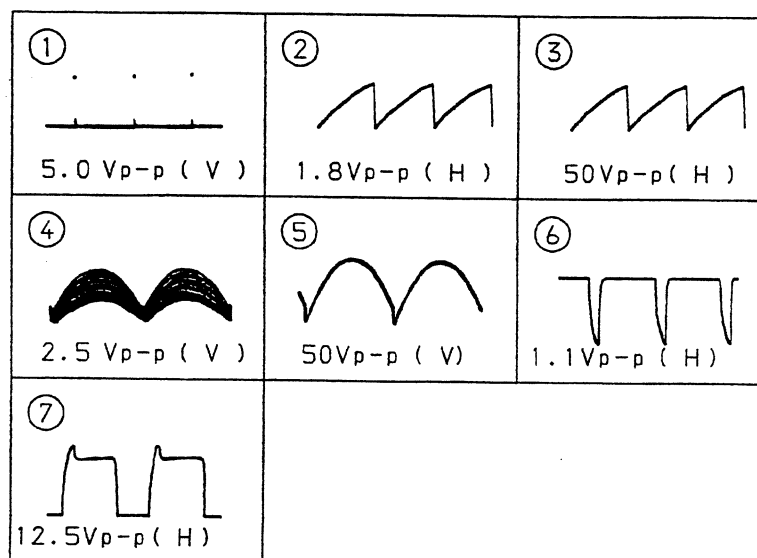
|          | 34inch only    | 29inch only   |
|----------|----------------|---------------|
| *1 C903  | 0.022 :MPS     | 0.22 :MPS     |
| *2 C910  | 0.24 200V :MPP | 0.1 200V :MPP |
| *3 C911  | 1 :MPS         | 0.1 :MPS      |
| *4 C912  |                | 0.0022 :MPS   |
| *5 C914  | 0.033 100V :PT | 0.01 100V :PT |
| *6 C916  | 0.0047 :PT     | JW 5          |
| *7 C917  | 0.0047 :PT     | 0.001 :PT     |
| *8 C920  | 0.022 400V :PP | 0.01 630V :PP |
| *9 C921  | 1 :MPS         | JW 5          |
| *10 C926 | 0.068 :MPS     | 0.1 :MPS      |
| *11 C927 |                | 0.33 :MPS     |
| *12 L902 | 7.5mH          | 3.3mH         |
| *13 L903 | 3.4mH          |               |
| *14 R805 | 330            |               |
| *15 R817 | 3.9K           | 2.7K          |
| *16 R825 | 47 1W :RS      | 10 1W :RS     |
| *17 R832 |                | 150 1W :RS    |
| *18 R908 | 33K            | 47K           |
| *19 R910 | 39K            | 15K           |
| *20 R915 | 6.8K           | 4.7K          |
| *21 R919 | 18K            | 47K           |
| *22 R922 | 68 1W :RS      | 1.5K 1W :RS   |
| *23 R927 | 1.5K           | 10K           |
| *24 R932 | 15K            |               |
| *25 R934 | 100K           | 68K           |
| *26 R944 | 22K            | 18K           |
| *27 R947 | 680 :FPR0      | 1.5K :FPR0    |
| *28 R948 | 68K            | 33K           |
| *29 R951 |                | 22K           |



VC BOARD \*MARK LIST

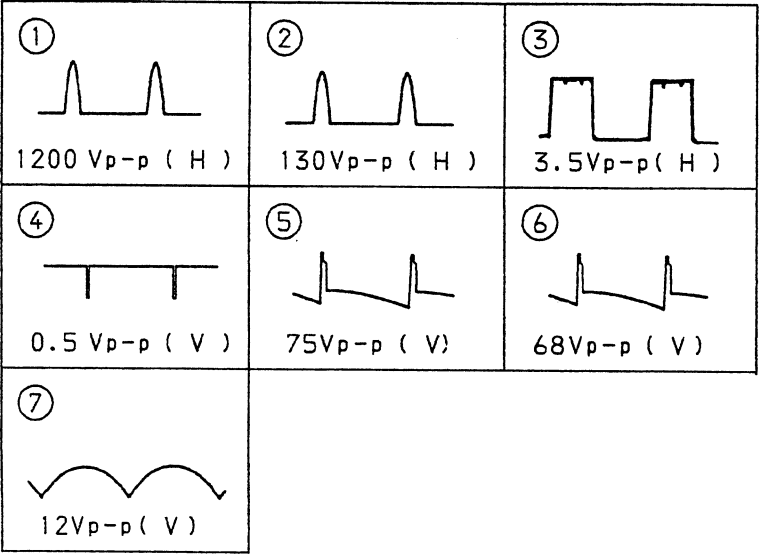
|          | 34inch only | 29inch only |
|----------|-------------|-------------|
| *1 C1812 | 0.24 200V   | 0.16 200V   |
| *2 C1813 |             | 0.047 200V  |
| *3 R1806 | 8.2K        | 6.8K        |
| *4 R1816 | 47K         | 27K         |

B-SS4289<GE.>-VC.

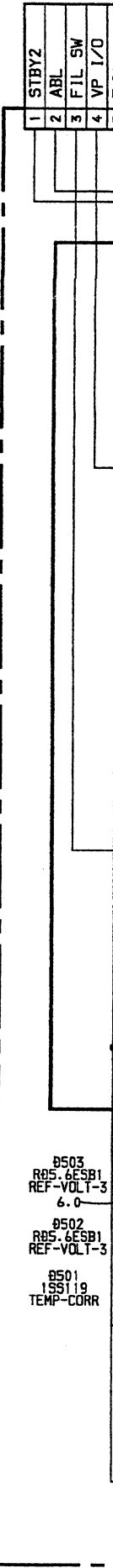
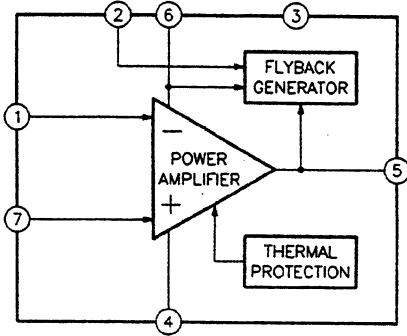


(9) SCHEMATIC DIAGRAM OF D BOARD

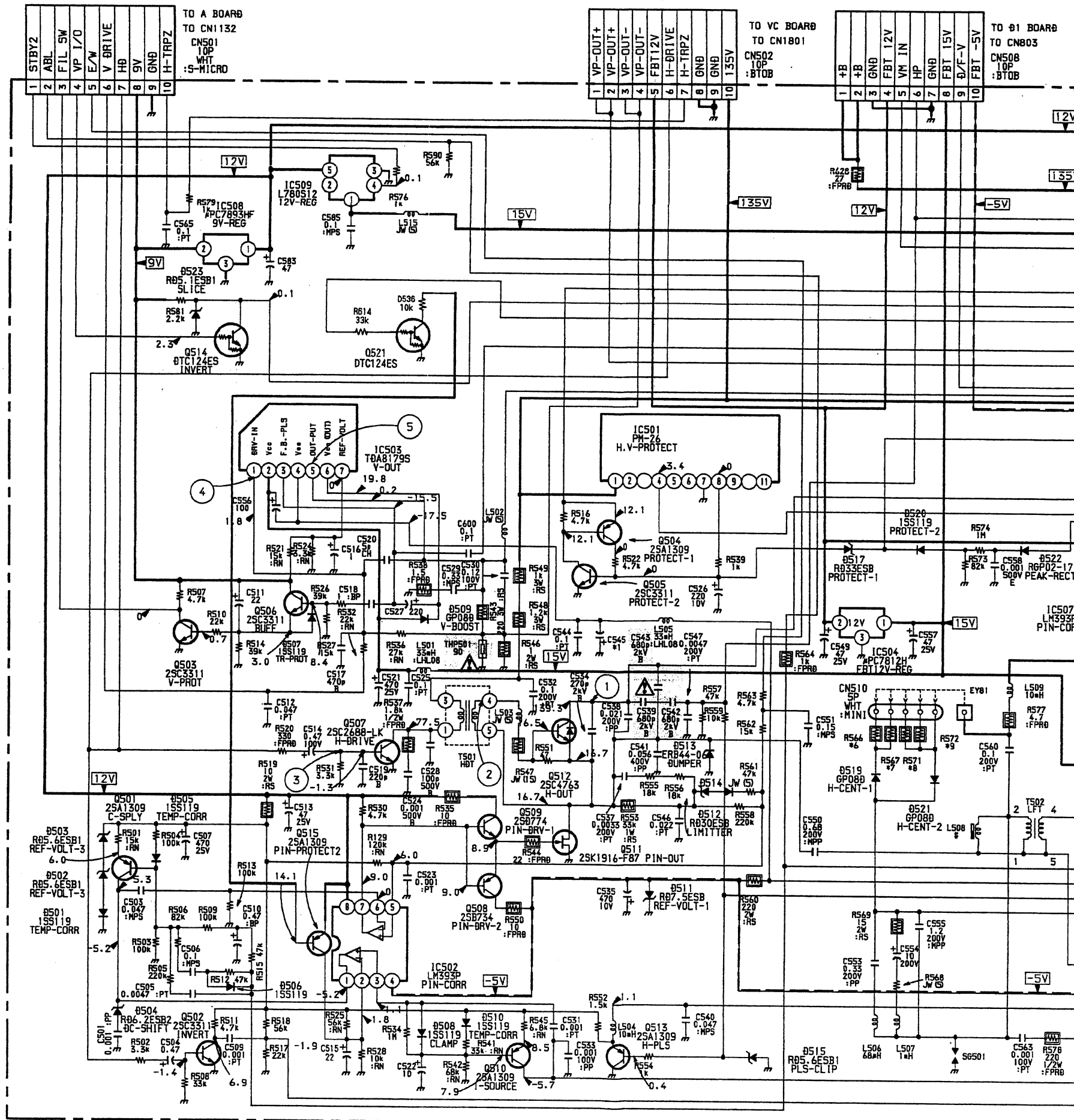
D BOARD WAVEFORMS

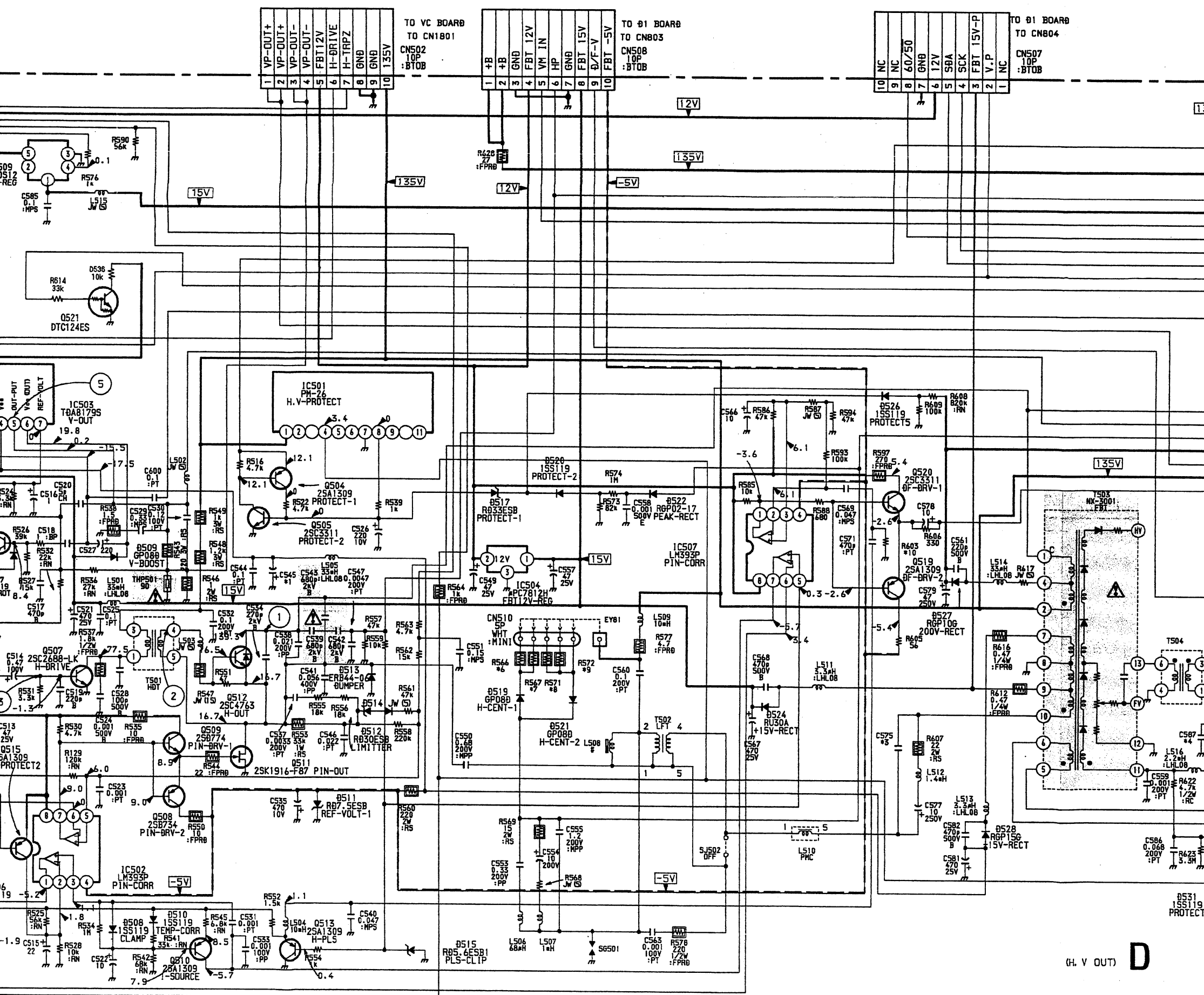


D Board IC503 TDA8179S



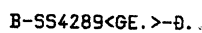






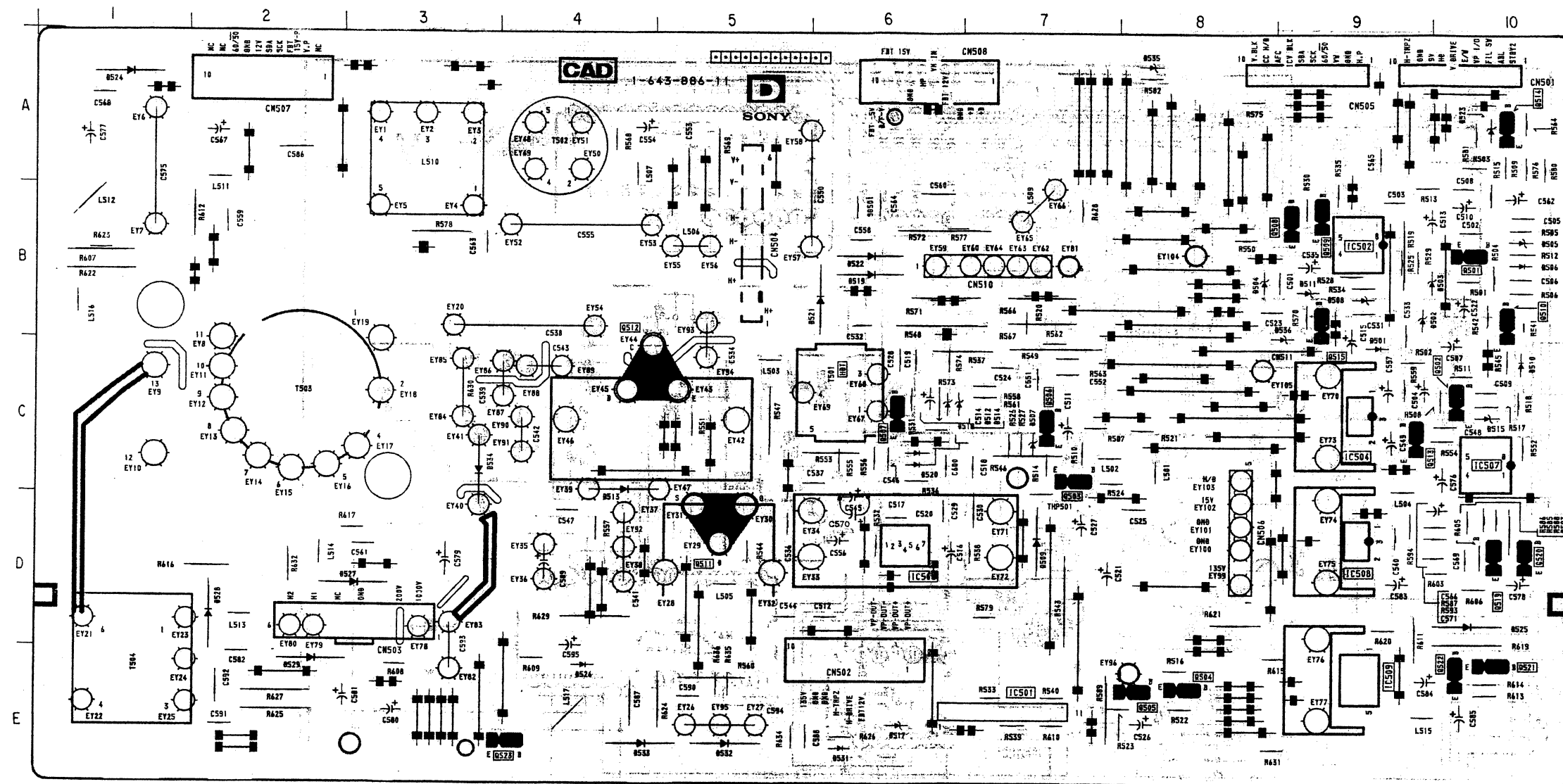
0 BOARD  
\*MARK LIST

|          | KV-S34MN1       | KV-S34SN1       | KV-S34JN1       | KV-S29MN1<br>S29SN1<br>S29JN1 |
|----------|-----------------|-----------------|-----------------|-------------------------------|
| *1 C545  | 470 25V         | 470 25V         | 470 25V         | 220 25V                       |
| *2 C570  |                 |                 |                 | 220 25V                       |
| *3 C575  | 0.68 200V :MPP  | 0.68 200V :MPP  | 0.68 200V :MPP  | 1 200V :MPP                   |
| *4 C587  | 0.0047 630V :PP | 0.0047 630V :PP | 0.0047 630V :PP | 0.0022 630V :PP               |
| *5 L517  | 7.5mH           | 7.5mH           | 7.5mH           | 10mH                          |
| *6 R566  | 0.22 2W :RS     | 5.6 2W :RS      | 33 2W :RS       | 33 2W :RS                     |
| *7 R567  | 68 2W :RS       | 100 2W :RS      | 330 2W :RS      | 330 2W :RS                    |
| *8 R571  |                 | 390 2W :RS      | 150 2W :RS      | 150 2W :RS                    |
| *9 R572  | 47 3W :RS       | 82 3W :RS       | 47 3W :RS       | 47 3W :RS                     |
| *10 R603 | 12K :RN         | 12K :RN         | 12K :RN         | 16K :RN                       |



-104-

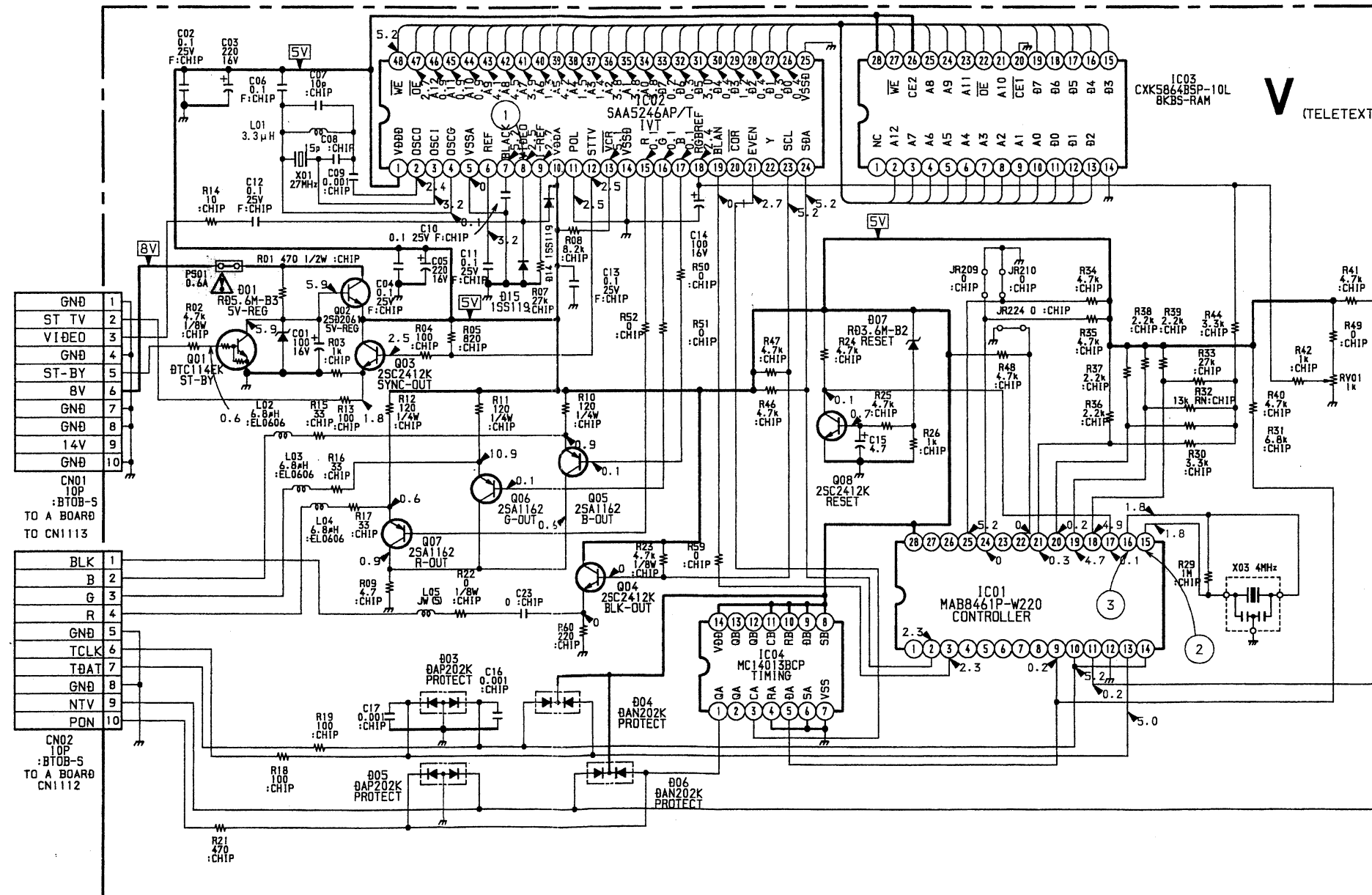
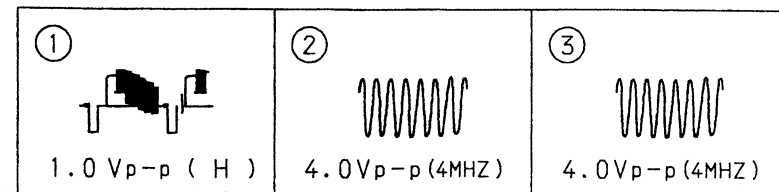
**PRINTED WIRING BOARD**  
**— D Board —**



| IC         |        | DIODE |        |
|------------|--------|-------|--------|
| IC501      | E - 7  | D501  | C - 9  |
| IC502      | B - 9  | D502  | B - 9  |
| IC503      | D - 6  | D503  | B - 9  |
| IC504      | C - 9  | D504  | B - 8  |
| IC507      | C - 10 | D505  | B - 10 |
| IC508      | D - 9  | D506  | B - 10 |
| IC509      | E - 9  | D507  | C - 7  |
|            |        | D508  | B - 9  |
|            |        | D509  | D - 7  |
|            |        | D510  | C - 10 |
| TRANSISTOR |        | D511  | B - 9  |
|            |        | D512  | C - 6  |
| Q501       | B - 10 | D513  | C - 4  |
| Q502       | C - 10 | D515  | C - 10 |
| Q503       | C - 7  | D517  | E - 6  |
| Q504       | E - 8  | D519  | B - 6  |
| Q505       | E - 8  | D520  | C - 6  |
| Q506       | C - 7  | D521  | B - 6  |
| Q507       | C - 6  | D522  | B - 6  |
| Q508       | B - 9  | D523  | A - 10 |
| Q509       | B - 9  | D524  | A - 1  |
| Q510       | B - 10 | D526  | E - 4  |
| Q511       | D - 5  | D527  | D - 3  |
| Q512       | C - 4  | D528  | D - 2  |
| Q513       | C - 9  | D529  | E - 2  |
| Q514       | A - 10 | D531  | E - 6  |
| Q515       | B - 9  | D532  | E - 5  |
| Q519       | D - 10 | D533  | E - 4  |
| Q520       | D - 10 | D534  | C - 3  |
| Q523       | E - 4  | D535  | A - 8  |
|            |        | D536  | B - 9  |

## (10) SCHEMATIC DIAGRAM OF V BOARD

## V BOARD WAVEFORMS



B-SS4289&lt;GE.&gt;-V..

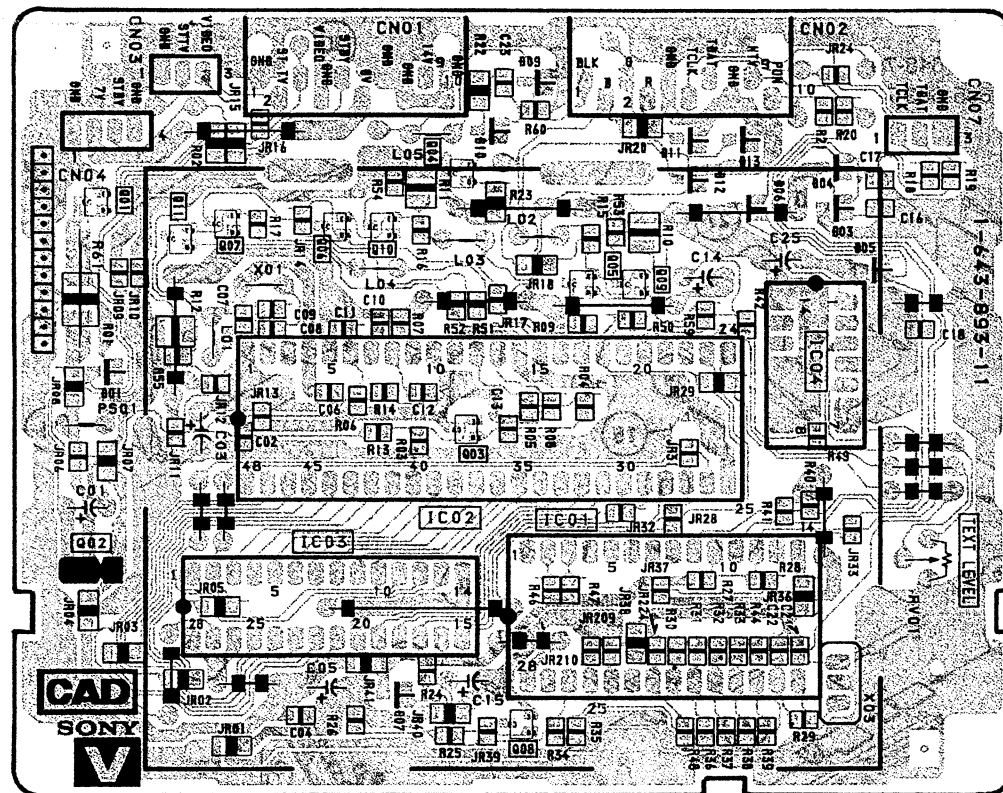
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

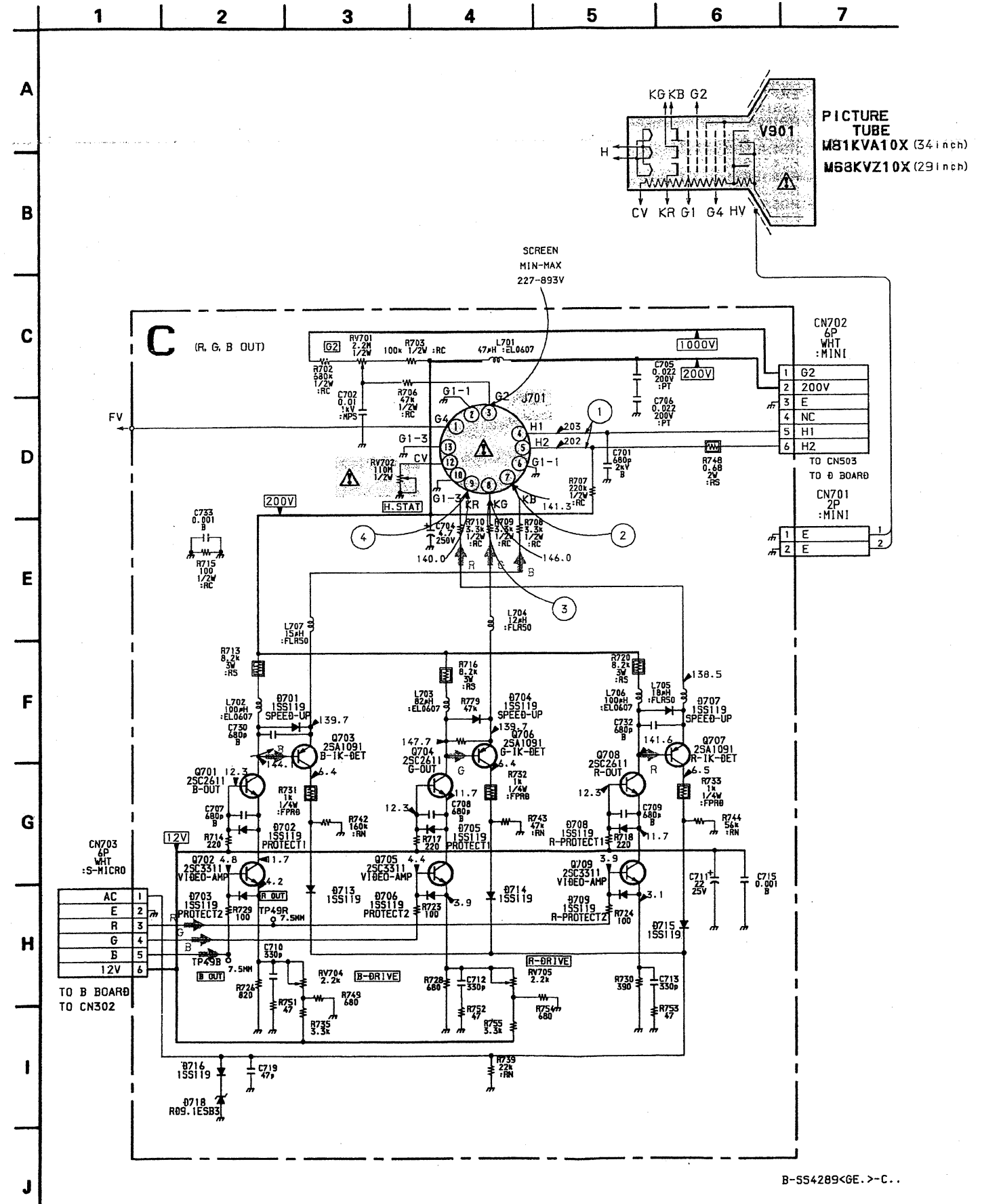
V [TELETEXT]

# PRINTED WIRING BOARD

- V Board -



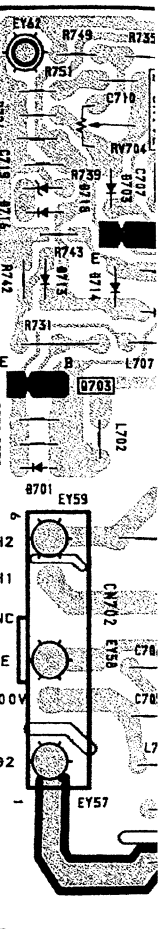
## (11) SCHEMATIC DIAGRAM OF C BOARD



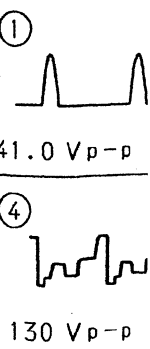
C [R.G.B OUT]

# PRINTED WIRING BOARD

- C Board -



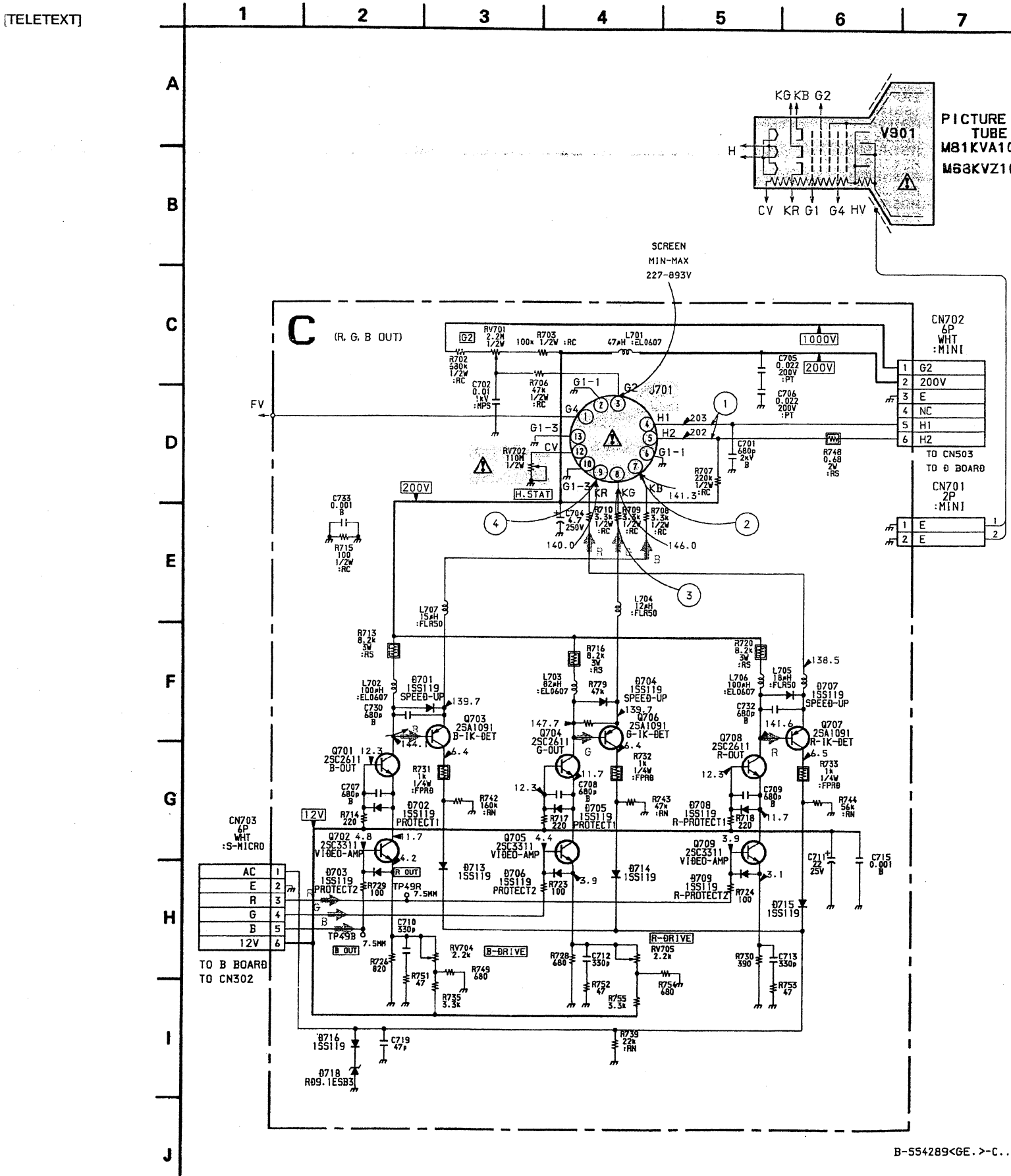
C BOARD WA





[TELETEXT]

(11) SCHEMATIC DIAGRAM OF C BOARD

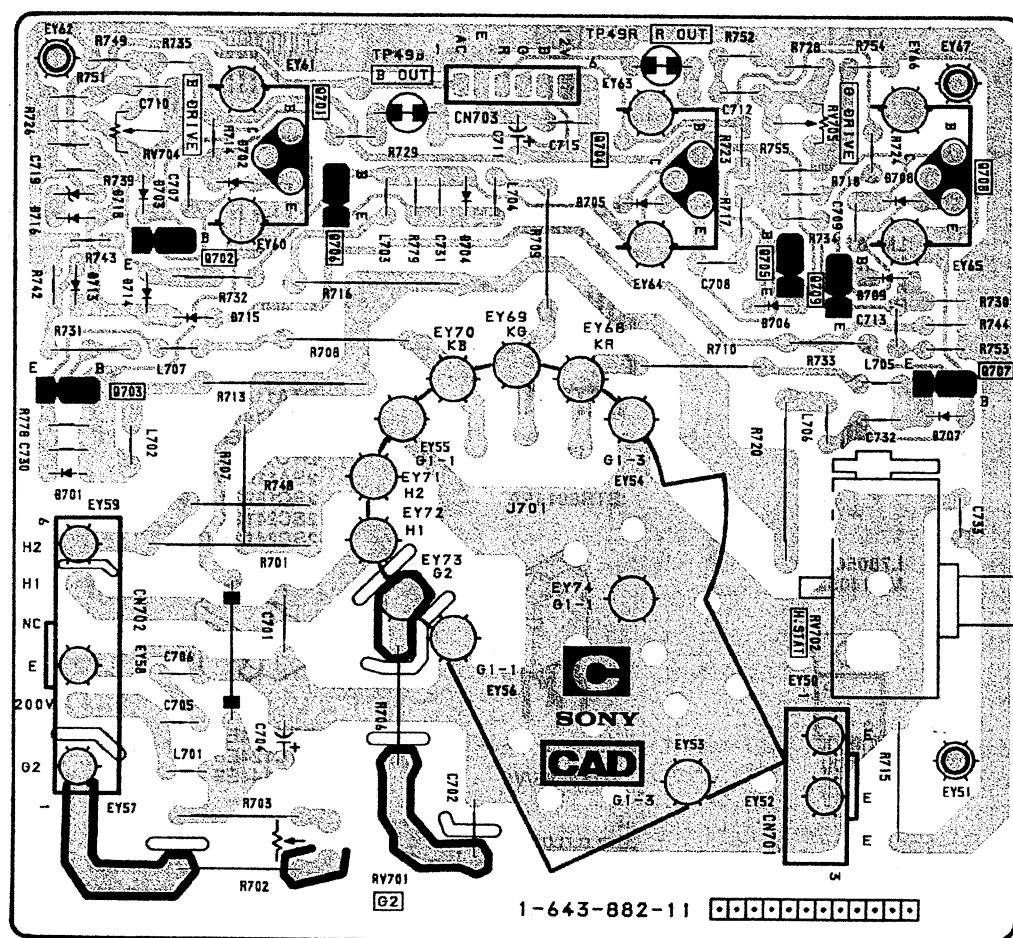


C

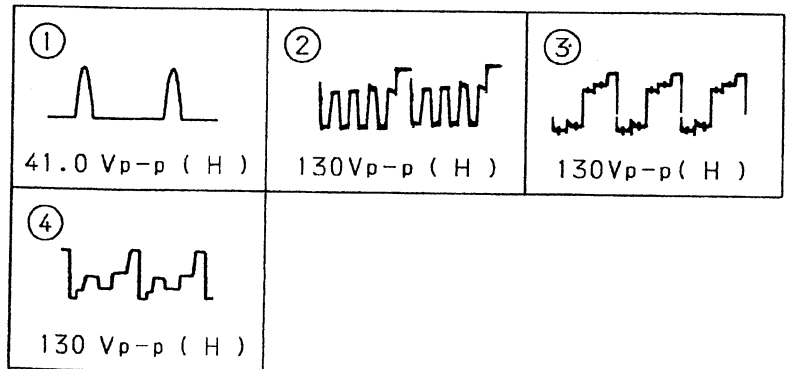
[R.G.B OUT]

PRINTED WIRING BOARD

- C Board -



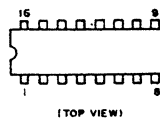
C BOARD WAVEFORMS



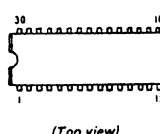


5-4. SEMICONDUCTORS

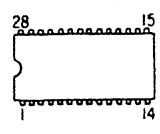
CXA1315M  
CXA1315P  
MC14052BCP  
MC14053BCP  
TDA4660V2  
μ PC4053BC



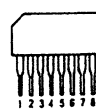
CXA1387S



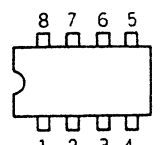
CXK5864BSP-10L



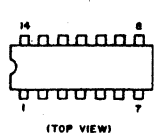
CX20125  
LA7016



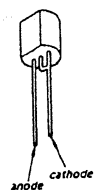
CX23025  
MSM5258RS  
NE5532P  
SDA9086-3  
TBA129  
μ PC358C  
μ PC4557C



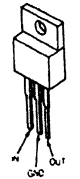
HD14013BP  
MC14066BCP  
MC14069UBF  
SN74LS02N



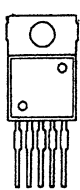
HZT33-02  
μ PC574J



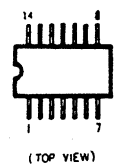
LM7812CT  
NJM78M12FA  
RC78M09FA  
RC7812FA



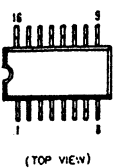
L780505  
MC14052BF



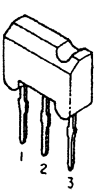
MC14066BF  
MC74HC4066F



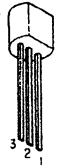
MC14528BF  
MC74HC4053F



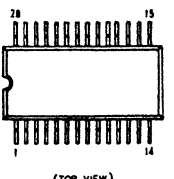
MN1280-S



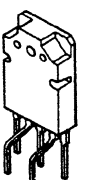
NJM78L09A  
RC78L09A



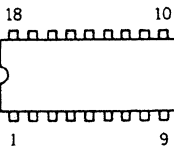
SDA9087XGEG  
SDA9089XGEG  
TDA4650/V4



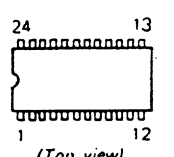
STR80145A



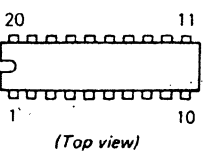
TDA2595/V9



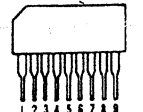
TDA6600-2



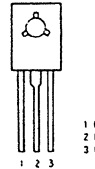
TDA8732



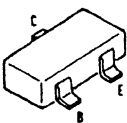
μ PC4570HA-1



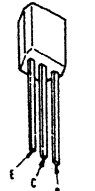
μ PC78N05H



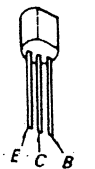
DTA114EK  
DTC114EK  
DTC124EK  
DTC144EK  
2SA1162-YG  
2SC1623-L5L6  
2SC2412K  
2SC2412K-QR



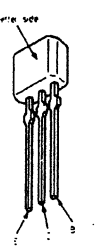
DTC114ES  
DTC124ES  
DTC144ES



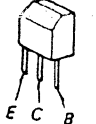
2SA1019-O



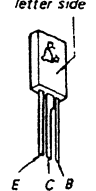
2SA1175-HFE  
2SC2785-HFE



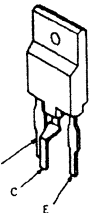
2SB734-34  
2SD774-34



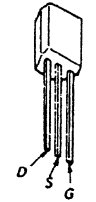
2SC2611  
2SC2688-LK  
2SC3840-K



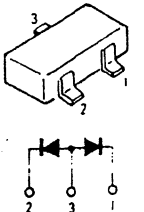
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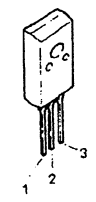
2SK669



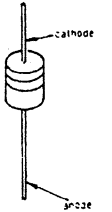
DAP202K



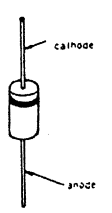
D10SC4M



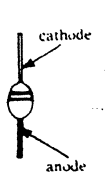
ERA32-004  
ERA38-06  
1SS119  
RB100A  
RD2.2ESB1  
RD2.4ESB2  
RD4.7ESB2  
RD5.1ESB1  
RD5.6ESB1  
RD5.6ESB2  
RD5.8ESB1  
RD6.2ESB2  
RD6.8ESB1  
RD7.5ESB2  
RD8.2ESB2  
RD9.1ESB2  
RD9.1ESB3  
RD10ES  
RD30ESB2  
RD33ESB2  
RD39ESB2



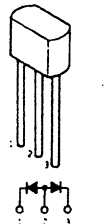
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RGP02-17



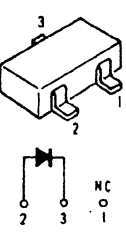
GP08D  
U05G



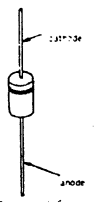
MA152WK



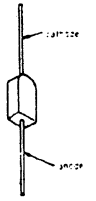
MA3056-TX  
MA3091  
MA3110  
RD3.6MB3  
RD5.1MB2  
RD5.6MB2



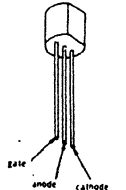
RGP10G  
RU-3AM



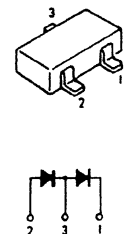
RM11C



SHOR3D42



1SS226



NOTE:  
• Items with r  
cription are  
are seldom  
• The construc  
part are ir  
number in th

6-1. CH/

●: BVTP3  
■: BVTP4

22

11

REF. NO. PART NO.

|    |           |
|----|-----------|
| 1  | 4-036-7   |
| 2  | *1-643-8  |
| 3  | *1-643-8  |
| 4  | 4-036-7   |
| 5  | *A-1195-  |
| 6  | 4-036-7   |
| 7  | *A-1347-  |
|    | *A-1347-  |
| 8  | *A-1346-  |
|    | *A-1346-  |
|    | *A-1346-  |
|    | *A-1346-  |
|    | *A-1346-  |
| 9  | Δ 1-439-1 |
| 10 | 4-036-7   |
| 11 | *A-1373-  |
|    | *A-1373-  |
| 12 | *1-643-8  |
| 13 | *A-1297-  |
|    | *A-1296-  |
|    | *A-1297-  |
|    | *A-1296-  |
| 14 | *A-1306-  |
| 15 | *A-1347-  |

SECTION 6  
EXPLODED VIEWS

## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

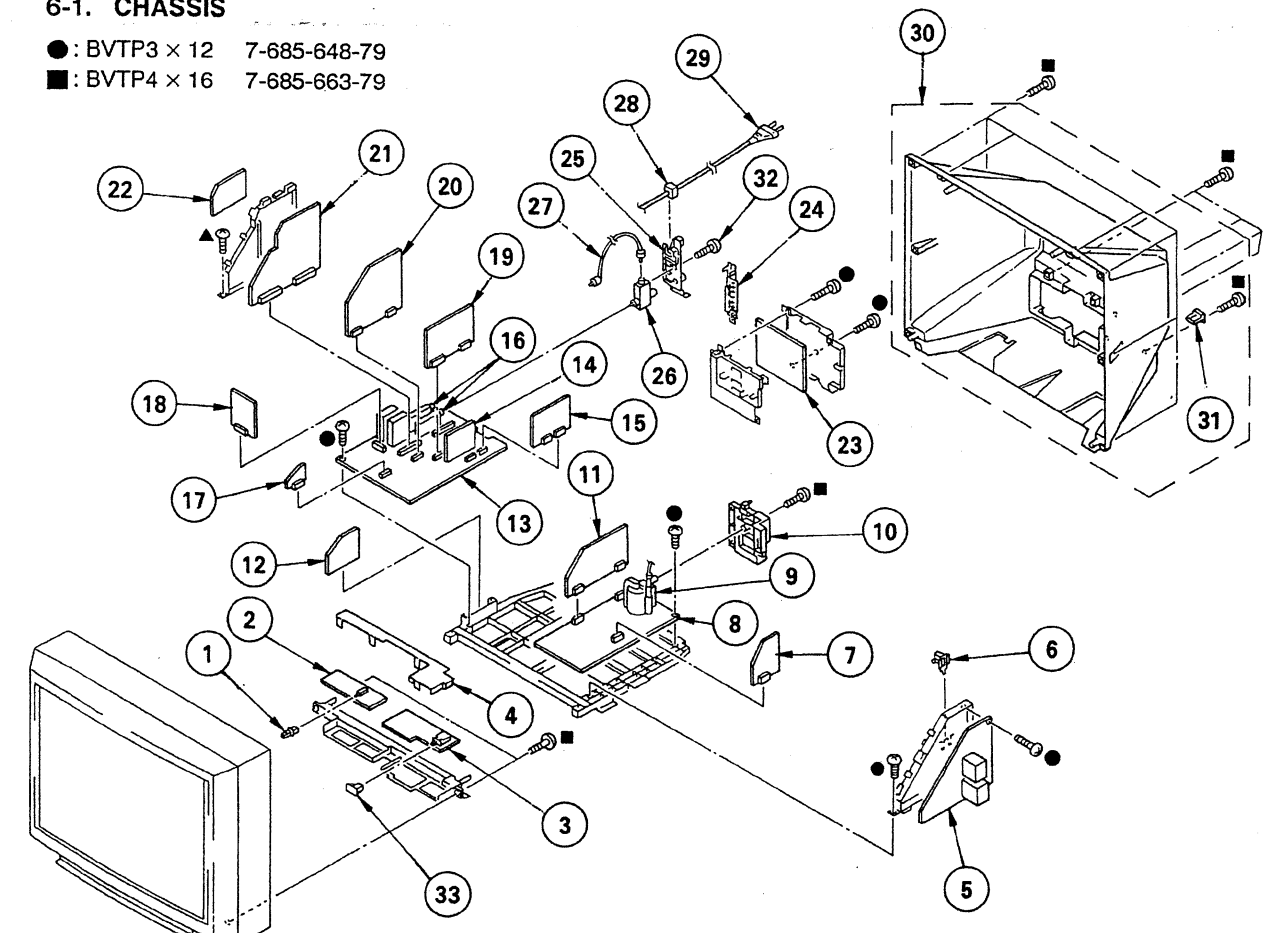
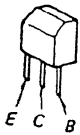
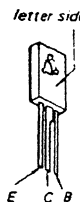
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

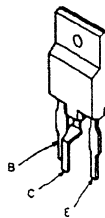
## 6-1. CHASSIS

●: BVTP3 × 12 7-685-648-79

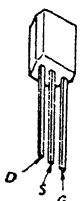
■: BVTP4 × 16 7-685-663-79

2SB734-34  
2SD774-342SC2611  
2SC2688-LK  
2SC3840-K

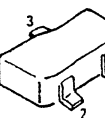
2SC4763 (LBSONY)



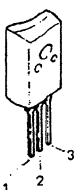
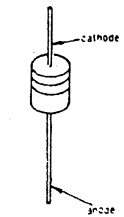
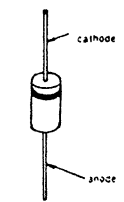
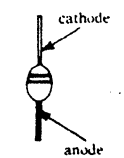
2SK669



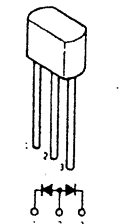
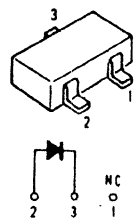
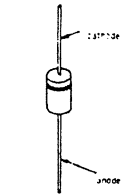
DAP202K



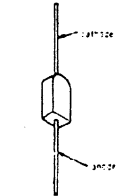
D10SC4M

ERA32-004  
ERA38-06  
1SS119  
RB100A  
RD2.2ESB1  
RD2.4ESB2  
RD4.7ESB2  
RD5.1ESB1  
RD5.6ESB1  
RD5.6ESB2  
RD5.8ESB1  
RD6.2ESB2  
RD6.8ESB1  
RD7.5ESB2  
RD8.2ESB2  
RD9.1ESB2  
RD9.1ESB3  
RD10ES  
RD30ESB2  
RD33ESB2  
RD39ESB2ERA81-004  
RGP02-17GP08D  
U05G

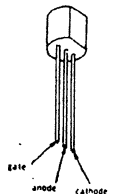
MA152WK

MA3056-TX  
MA3091  
MA3110  
RD3.6MB3  
RD5.1MB2  
RD5.6MB2RGP10G  
RU-3AM

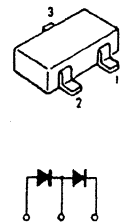
RM11C



SHOR3D42



1SS226

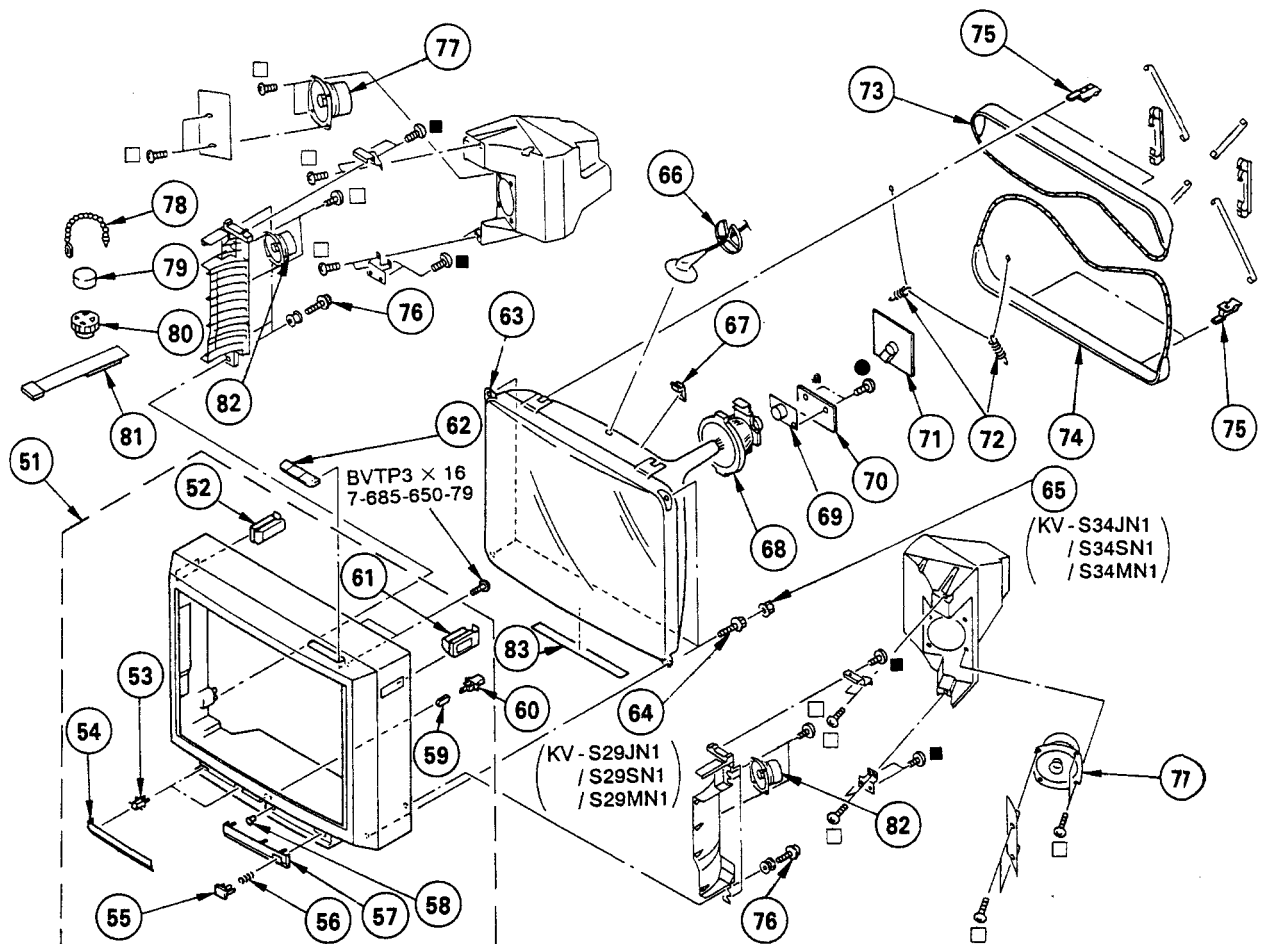


| REF.NO. | PART NO.              | DESCRIPTION                           | REMARK                              | REF.NO. | PART NO.              | DESCRIPTION                  | REMARK                      |
|---------|-----------------------|---------------------------------------|-------------------------------------|---------|-----------------------|------------------------------|-----------------------------|
| 1       | 4-036-764-01          | BUTTON, SELECTION, AV                 |                                     | 16      | $\Delta$ 1-693-123-11 | TUNER, ET (BTP-RG401)        |                             |
| 2       | *1-643-890-11         | H1 BOARD                              |                                     | 17      | *1-644-746-11         | A2 BOARD                     |                             |
| 3       | *1-643-891-11         | H2 BOARD                              |                                     | 18      | *A-1390-304-A         | S BOARD, COMPLETE            |                             |
| 4       | 4-036-794-01          | COVER, H                              |                                     | 19      | *A-1135-717-A         | BP BOARD, COMPLETE           |                             |
| 5       | *A-1195-056-A         | F BOARD, COMPLETE                     |                                     | 20      | *A-1297-031-A         | A1 BOARD, COMPLETE           |                             |
| 6       | 4-036-766-01          | CLIP, VC PC BOARD                     |                                     | 21      | *A-1135-741-A         | B BOARD, COMPLETE            |                             |
| 7       | *A-1347-064-A         | VC BOARD, COMPLETE                    | (KV-S29JN1, S29MN1, S29SN1)         |         |                       |                              |                             |
|         | *A-1347-063-A         | VC BOARD, COMPLETE                    | (KV-S34JN1, S34MN1, S34SN1)         |         | *A-1135-718-A         | B BOARD, COMPLETE            | (KV-S29JN1, S29MN1, S29SN1) |
| 8       | *A-1346-075-A         | D BOARD, COMPLETE                     | (KV-S29JN1, S29MN1)                 |         |                       |                              |                             |
|         | *A-1346-110-A         | D BOARD, COMPLETE                     | (KV-S29SN1)                         | 22      | *A-1135-719-A         | B1 BOARD, COMPLETE           |                             |
|         | *A-1346-064-A         | D BOARD, COMPLETE                     | (KV-S34JN1)                         | 23      | *A-1388-143-A         | J BOARD, COMPLETE            |                             |
|         | *A-1346-106-A         | D BOARD, COMPLETE                     | (KV-S34MN1)                         | 24      | 4-036-789-01          | COVER, TERMINAL              |                             |
|         | *A-1346-107-A         | D BOARD, COMPLETE                     | (KV-S34SN1)                         | 25      | 4-036-787-01          | BRACKET, ANTENNA             |                             |
| 9       | $\Delta$ 1-439-524-11 | TRANSFORMER ASSY, FLYBACK (NX-3000A2) |                                     | 26      | $\Delta$ 1-251-027-11 | DISTRIBUTOR                  |                             |
| 10      | 4-036-788-01          | BRACKET, FBT                          |                                     | 27      | *1-555-110-00         | CABLE, PIN                   |                             |
| 11      | *A-1373-365-A         | D1 BOARD, COMPLETE                    | (KV-S29JN1, S29MN1, S29SN1)         | 28      | $\Delta$ 4-335-154-02 | GROMMET, AC CORD             |                             |
|         | *A-1373-334-A         | D1 BOARD, COMPLETE                    | (KV-S34JN1, S34MN1, S34SN1)         | 29      | $\Delta$ 1-696-401-11 | CORD, POWER (WITH CONNECTOR) |                             |
| 12      | *1-643-889-11         | F1 BOARD                              |                                     |         | $\Delta$ 1-574-062-12 | CORD, POWER (WITH CONNECTOR) | (KV-S29JN1, S34JN1)         |
| 13      | *A-1297-064-A         | A BOARD, COMPLETE (KV-S29JN1)         |                                     |         | $\Delta$ 1-574-358-11 | CORD, POWER (WITH CONNECTOR) | (KV-S29MN1, S34MN1)         |
|         | *A-1296-972-A         | A BOARD, COMPLETE                     | (KV-S29MN1, S29SN1)                 |         |                       |                              | (KV-S29SN1, S34SN1)         |
|         | *A-1297-033-A         | A BOARD, COMPLETE (KV-S34JN1)         |                                     | 30      | X-4030-652-2          | COVER ASSY, REAR             | (KV-S29JN1, S29MN1, S29SN1) |
|         | *A-1296-961-A         | A BOARD, COMPLETE (KV-S34MN1, S34SN1) |                                     |         | X-4030-446-1          | COVER ASSY, REAR             | (KV-S34JN1, S34MN1, S34SN1) |
| 14      | *A-1306-425-A         | M BOARD, COMPLETE (KV-S29JN1, S34JN1) |                                     |         |                       |                              |                             |
|         |                       |                                       | (KV-S29MN1, S29SN1, S34MN1, S34SN1) | 31      | 4-033-719-01          | BUCKLE, A                    |                             |
| 15      | *A-1347-062-A         | V BOARD, COMPLETE                     |                                     | 32      | 4-379-611-01          | SCREW (M3X8), +B             |                             |
|         |                       |                                       |                                     | 33      | 4-394-972-01          | CAP, POWER                   |                             |

## 6-2. PICTURE TUBE

- : BVTP 3 × 12 7-685-648-79  
 ■: BVTP 4 × 16 7-685-663-79  
 □: BVTP 4 × 12 7-685-661-79

The components identified by shading and mark  $\Delta$  are critical for safety.  
 Replace only with part number specified.



| REF.NO. | PART NO.              | DESCRIPTION                    | REMARK              | REF.NO. | PART NO.              | DESCRIPTION                                  | REMARK                      |
|---------|-----------------------|--------------------------------|---------------------|---------|-----------------------|----------------------------------------------|-----------------------------|
| 51      | X-4030-778-1          | CABINET ASSY (WITH BEZEL ASSY) | 52~61 (KV-S29JN1)   | 64      | 4-390-505-01          | SCREW (7), TAPPING                           | (KV-S29JN1, S29MN1, S29SN1) |
|         | X-4030-687-1          | CABINET ASSY (WITH BEZEL ASSY) | 52~61 (KV-S29MN1)   | 65      | 4-387-204-01          | NUT, SPECIAL, PICTURE TUBE                   | (KV-S34JN1, S34MN1, S34SN1) |
|         | X-4030-776-1          | CABINET ASSY (WITH BEZEL ASSY) | 52~61 (KV-S29SN1)   | 66      | *3-704-372-01         | HOLDER, HV CABLE                             |                             |
|         | X-4030-688-1          | CABINET ASSY (WITH BEZEL ASSY) | 52~61 (KV-S34JN1)   | 67      | 3-704-495-01          | SPACER, DY                                   |                             |
|         | X-4030-650-1          | CABINET ASSY (WITH BEZEL ASSY) | 52~61 (KV-S34MN1)   | 68      | $\Delta$ 1-451-394-11 | DEFLECTION YOKE (Y29EXA)                     | (KV-S29JN1, S29MN1, S29SN1) |
|         | X-4030-666-1          | CABINET ASSY (WITH BEZEL ASSY) | 52~61 (KV-S34SN1)   |         | $\Delta$ 1-451-393-11 | DEFLECTION YOKE (Y34EXA)                     | (KV-S34JN1, S34MN1, S34SN1) |
| 52      | 4-033-553-03          | HANDLE (L)                     |                     | 69      | $\Delta$ 1-452-616-12 | NECK ASSY, PICTURE TUBE (NA323)              |                             |
| 53      | 3-703-035-11          | SHAFT, LID                     |                     | 70      | *A-1342-186-A         | VM BOARD, COMPLETE                           |                             |
| 54      | 4-036-782-71          | DOOR (KV-S29JN1)               |                     | 71      | *A-1331-217-A         | C BOARD, COMPLETE                            |                             |
|         | 4-036-782-41          | DOOR (KV-S29MN1)               |                     | 72      | 4-369-318-00          | SPRING, TENSION                              |                             |
|         | 4-036-782-61          | DOOR (KV-S29SN1)               |                     | 73      | $\Delta$ 1-402-742-11 | COIL, DEGAUSSING (KV-S29JN1, S29MN1, S29SN1) |                             |
|         | 4-036-782-51          | DOOR (KV-S34JN1)               |                     |         | $\Delta$ 1-426-607-11 | COIL, DEGAUSSING (KV-S34JN1, S34MN1, S34SN1) |                             |
|         | 4-036-782-11          | DOOR (KV-S34MN1)               |                     | 74      | $\Delta$ 1-402-743-11 | COIL, DEGAUSSING (KV-S29JN1, S29MN1, S29SN1) |                             |
|         | 4-036-782-31          | DOOR (KV-S34SN1)               |                     |         | $\Delta$ 1-426-608-11 | COIL, DEGAUSSING (KV-S34JN1, S34MN1, S34SN1) |                             |
| 55      | 4-036-776-01          | BUTTON, POWER                  |                     | 75      | 4-033-545-01          | CLIP (KV-S29JN1, S29MN1, S29SN1)             |                             |
| 56      | 4-038-104-01          | SPRING, COMPRESSION            |                     |         | 4-033-744-01          | CLIP (KV-S34JN1, S34MN1, S34SN1)             |                             |
| 57      | 4-036-783-01          | PANEL                          |                     | 76      | 4-384-096-01          | SCREW (4X16), TAPPING, +P                    |                             |
| 58      | *4-374-987-01         | GUIDE, LIGHT                   |                     | 77      | 1-544-557-11          | SPEAKER (12CM)                               |                             |
| 59      | 4-036-765-01          | ARM                            |                     | 78      | 4-308-870-00          | CLIP, LEAD WIRE                              |                             |
| 60      | 4-036-777-01          | DAMPER                         |                     | 79      | 1-452-032-00          | MAGNET, DISK; 10MM $\phi$                    |                             |
| 61      | 4-033-552-03          | HANDLE (R)                     |                     | 80      | 1-452-094-00          | MAGNET, ROTABLE DISK; 15MM $\phi$            |                             |
| 62      | 1-466-752-11          | BLOCK, SWITCH                  |                     | 81      | X-4306-312-0          | PERMALLOY ASSY, CONVERGENCE                  |                             |
| 63      | $\Delta$ 8-733-837-05 | PICTURE TUBE (M68KU210X)       | (KV-S29JN1, S29MN1) | 82      | 1-504-121-41          | SPEAKER (SQUAWKER) (5CM)                     |                             |
|         | $\Delta$ 8-733-836-05 | PICTURE TUBE (M68KU210X)       | (KV-S29SN1)         | 83      | 4-385-725-01          | SHEET, BLOTTING                              |                             |
|         | $\Delta$ 8-733-731-05 | PICTURE TUBE (M81KVA10X)       | (KV-S34JN1)         |         |                       |                                              |                             |
|         | $\Delta$ 8-733-733-05 | PICTURE TUBE (M81KVA10X)       | (KV-S34MN1)         |         |                       |                                              |                             |
|         | $\Delta$ 8-733-732-05 | PICTURE TUBE (M81KVA10X)       | (KV-S34SN1)         |         |                       |                                              |                             |

BP

SECTION 7  
ELECTRICAL PARTS LIST

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F

## COILS

• MMH : mH, UH :  $\mu$ H

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

| REF. NO. | PART NO.      | DESCRIPTION                 | REMARK   | REF. NO. | PART NO.     | DESCRIPTION           | REMARK   |
|----------|---------------|-----------------------------|----------|----------|--------------|-----------------------|----------|
|          | *A-1135-717-A | BP BOARD, COMPLETE<br>***** |          | C3341    | 1-130-491-00 | MYLAR 0.047MF         | 5% 50V   |
|          | 4-038-322-01  | CUSHION                     |          | C3342    | 1-106-343-00 | FILM 0.001MF          | 5% 100V  |
|          | <FILTER>      |                             |          | C3343    | 1-124-034-51 | ELECT 33MF            | 20% 16V  |
| BF3301   | 1-236-063-11  | MODULE, B.P.F               |          | C3344    | 1-124-903-11 | ELECT 1MF             | 20% 50V  |
|          | <CAPACITOR>   |                             |          | C3345    | 1-136-169-00 | FILM 0.22MF           | 5% 50V   |
| C3301    | 1-124-477-11  | ELECT 47MF                  | 20% 16V  | C3346    | 1-130-483-00 | MYLAR 0.01MF          | 5% 50V   |
| C3302    | 1-163-038-00  | CERAMIC CHIP 0.1MF          | 5% 25V   | C3347    | 1-126-101-11 | ELECT 100MF           | 20% 16V  |
| C3303    | 1-124-477-11  | ELECT 47MF                  | 20% 16V  | C3348    | 1-136-287-11 | FILM 0.0047MF         | 5% 50V   |
| C3304    | 1-163-135-00  | CERAMIC CHIP 560PF          | 5% 50V   | C3349    | 1-136-175-00 | FILM 0.68MF           | 5% 50V   |
| C3305    | 1-163-038-00  | CERAMIC CHIP 0.1MF          | 5% 25V   | C3350    | 1-130-483-00 | MYLAR 0.01MF          | 5% 50V   |
| C3306    | 1-124-903-11  | ELECT 1MF                   | 20% 50V  | C3351    | 1-130-487-00 | MYLAR 0.022MF         | 5% 50V   |
| C3307    | 1-136-489-81  | FILM 0.022MF                | 5% 50V   | C3352    | 1-124-927-11 | ELECT 4.7MF           | 20% 50V  |
| C3308    | 1-163-033-00  | CERAMIC CHIP 0.022MF        | 5% 50V   | C3353    | 1-163-809-11 | CERAMIC CHIP 0.047MF  | 10% 25V  |
| C3309    | 1-163-031-11  | CERAMIC CHIP 0.01MF         | 5% 50V   | C3354    | 1-163-009-11 | CERAMIC CHIP 0.001MF  | 10% 50V  |
| C3310    | 1-124-903-11  | ELECT 1MF                   | 20% 50V  | C3356    | 1-124-126-00 | ELECT 47MF            | 20% 10V  |
| C3311    | 1-126-103-11  | ELECT 470MF                 | 20% 16V  | C3357    | 1-164-004-11 | CERAMIC CHIP 0.1MF    | 10% 25V  |
| C3312    | 1-136-493--B  | FILM 0.047MF                | 5% 50V   | C3358    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V  |
| C3313    | 1-163-111-00  | CERAMIC CHIP 56PF           | 5% 50V   | C3359    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V  |
| C3314    | 1-163-031-11  | CERAMIC CHIP 0.01MF         | 5% 50V   | C3360    | 1-164-005-11 | CERAMIC CHIP 0.47MF   | 25V      |
| C3315    | 1-136-171-00  | FILM 0.33MF                 | 5% 50V   | C3361    | 1-164-004-11 | CERAMIC CHIP 0.1MF    | 10% 25V  |
| C3316    | 1-163-115-00  | CERAMIC CHIP 82PF           | 5% 50V   | C3362    | 1-124-443-00 | ELECT 100MF           | 20% 6.3V |
| C3317    | 1-163-237-11  | CERAMIC CHIP 27PF           | 5% 50V   | C3363    | 1-164-004-11 | CERAMIC CHIP 0.1MF    | 10% 25V  |
| C3318    | 1-163-105-00  | CERAMIC CHIP 33PF           | 5% 50V   | C3364    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3319    | 1-163-119-00  | CERAMIC CHIP 120PF          | 5% 50V   | C3365    | 1-124-791-11 | ELECT 1MF             | 20% 50V  |
| C3320    | 1-216-037-00  | METAL GLAZE 330             | 5% 1/10W | C3366    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3321    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3367    | 1-124-791-11 | ELECT 1MF             | 20% 50V  |
| C3322    | 1-216-037-00  | METAL GLAZE 330             | 5% 1/10W | C3368    | 1-124-903-11 | ELECT 1MF             | 20% 50V  |
| C3323    | 1-163-237-11  | CERAMIC CHIP 27PF           | 5% 50V   | C3369    | 1-163-133-00 | CERAMIC CHIP 470PF    | 5% 50V   |
| C3324    | 1-136-489-81  | FILM 0.022MF                | 5% 50V   | C3370    | 1-124-443-00 | ELECT 100MF           | 20% 6.3V |
| C3325    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3371    | 1-164-004-11 | CERAMIC CHIP 0.1MF    | 10% 25V  |
| C3326    | 1-136-489-81  | FILM 0.022MF                | 5% 50V   | C3372    | 1-163-133-00 | CERAMIC CHIP 470PF    | 5% 50V   |
| C3327    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3373    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3328    | 1-163-125-00  | CERAMIC CHIP 220PF          | 5% 50V   | C3375    | 1-124-443-00 | ELECT 100MF           | 20% 6.3V |
| C3329    | 1-163-031-11  | CERAMIC CHIP 0.01MF         | 5% 50V   | C3376    | 1-124-443-00 | ELECT 100MF           | 20% 6.3V |
| C3330    | 1-163-123-00  | CERAMIC CHIP 180PF          | 5% 50V   | C3377    | 1-163-009-11 | CERAMIC CHIP 0.001MF  | 10% 50V  |
| C3331    | 1-163-031-11  | CERAMIC CHIP 0.01MF         | 5% 50V   | C3378    | 1-163-123-00 | CERAMIC CHIP 180PF    | 5% 50V   |
| C3332    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3379    | 1-164-222-11 | CERAMIC CHIP 0.22MF   | 25V      |
| C3333    | 1-124-910-11  | ELECT 47MF                  | 20% 50V  | C3380    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3334    | 1-163-121-00  | CERAMIC CHIP 150PF          | 5% 50V   | C3381    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3335    | 1-163-031-11  | CERAMIC CHIP 0.01MF         | 5% 50V   | C3382    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3336    | 1-163-031-11  | CERAMIC CHIP 0.01MF         | 5% 50V   | C3383    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
| C3337    | 1-124-910-11  | ELECT 47MF                  | 20% 50V  | C3384    | 1-164-004-11 | CERAMIC CHIP 0.1MF    | 10% 25V  |
| C3338    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3389    | 1-126-320-11 | ELECT 10MF            | 20% 16V  |
| C3339    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3391    | 1-126-320-11 | ELECT 10MF            | 20% 16V  |
| C3340    | 1-136-497--B  | FILM 0.1MF                  | 5% 50V   | C3392    | 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% 50V  |
|          |               |                             |          | C3393    | 1-163-005-11 | CERAMIC CHIP 470PF    | 10% 50V  |
|          |               |                             |          | C3394    | 1-163-095-00 | CERAMIC CHIP 12PF     | 5% 50V   |
|          |               |                             |          | C3395    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |
|          |               |                             |          | C3396    | 1-163-038-00 | CERAMIC CHIP 0.1MF    | 25V      |
|          |               |                             |          | C3397    | 1-163-109-00 | CERAMIC CHIP 47PF     | 5% 50V   |
|          |               |                             |          | C3399    | 1-124-477-11 | ELECT 47MF            | 20% 16V  |

| REF. NO.     | PART NO.      | DESCRIPTION                   | REMARK | REF. NO.     | PART NO.     | DESCRIPTION           | REMARK |
|--------------|---------------|-------------------------------|--------|--------------|--------------|-----------------------|--------|
| C3400        | 1-126-157-11  | ELECT 10MF 20%                | 16V    | L3312        | 1-410-470-11 | INDUCTOR 10UH         |        |
| C3401        | 1-124-907-11  | ELECT 10MF 20%                | 50V    | L3313        | 1-410-645-31 | INDUCTOR 100UH        |        |
| C3402        | 1-163-119-00  | CERAMIC CHIP 120PF 5%         | 50V    | L3314        | 1-410-645-31 | INDUCTOR 100UH        |        |
| C3403        | 1-164-161-11  | CERAMIC CHIP 0.0022MF 10%     | 50V    |              |              |                       |        |
| <CONNECTOR>  |               |                               |        | <TRANSISTOR> |              |                       |        |
| CN3301       | *1-691-632-11 | CONNECTOR, BOARD TO BOARD 15P |        | Q3301        | 8-729-901-04 | TRANSISTOR DTA114EK   |        |
| CN3302       | *1-573-979-11 | CONNECTOR, BOARD TO BOARD 11P |        | Q3302        | 8-729-901-04 | TRANSISTOR DTA114EK   |        |
| <TRIMMER>    |               |                               |        | Q3303        | 8-729-901-04 | TRANSISTOR DTA114EK   |        |
| CT3301       | 1-141-245-00  | TRIMMER, CERAMIC              |        | Q3304        | 8-729-901-04 | TRANSISTOR DTA114EK   |        |
| CT3304       | 1-141-245-00  | TRIMMER, CERAMIC              |        | Q3305        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| <DIODE>      |               |                               |        | Q3309        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| D3301        | 8-719-800-76  | DIODE 1SS226                  |        | Q3310        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3302        | 8-719-800-76  | DIODE 1SS226                  |        | Q3311        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3303        | 8-719-800-76  | DIODE 1SS226                  |        | Q3312        | 8-729-901-01 | TRANSISTOR DTC144EK   |        |
| D3304        | 8-719-800-76  | DIODE 1SS226                  |        | Q3313        | 8-729-901-00 | TRANSISTOR DTC124EK   |        |
| D3305        | 8-719-800-76  | DIODE 1SS226                  |        | Q3314        | 8-729-901-01 | TRANSISTOR DTC144EK   |        |
| D3306        | 8-719-105-91  | DIODE RD5.6M-B2               |        | Q3315        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3307        | 8-719-105-91  | DIODE RD5.6M-B2               |        | Q3316        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3308        | 8-719-800-76  | DIODE 1SS226                  |        | Q3317        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| D3309        | 8-719-800-76  | DIODE 1SS226                  |        | Q3318        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3310        | 8-719-800-76  | DIODE 1SS226                  |        | Q3319        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3311        | 8-719-800-76  | DIODE 1SS226                  |        | Q3320        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| D3312        | 8-719-800-76  | DIODE 1SS226                  |        | Q3321        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| D3313        | 8-719-982-11  | DIODE MTZJ-4.38               |        | Q3322        | 8-729-901-01 | TRANSISTOR DTC144EK   |        |
| <DELAY LINE> |               |                               |        | Q3323        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| DL3301       | 1-415-914-11  | DELAY LINE                    |        | Q3324        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| DL3302       | 1-415-914-11  | DELAY LINE                    |        | Q3325        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| <IC>         |               |                               |        | Q3326        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC3301       | 8-752-058-68  | IC CXA1315M                   |        | Q3327        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| IC3302       | 8-759-521-22  | IC TDA4650/V4                 |        | Q3328        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC3303       | 8-759-505-39  | IC TDA4660V2                  |        | Q3329        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC3304       | 8-759-009-46  | IC MC14528BF                  |        | Q3330        | 8-729-900-53 | TRANSISTOR DTC114EK   |        |
| IC3306       | 8-759-513-48  | IC TDA2595/V9                 |        | Q3331        | 8-729-900-53 | TRANSISTOR DTC114EK   |        |
| IC3307       | 8-759-055-51  | IC SDA9087XGEG                |        | Q3332        | 8-729-900-53 | TRANSISTOR DTC114EK   |        |
| IC3308       | 8-759-055-52  | IC SDA9089XGEG                |        | Q3333        | 8-729-900-53 | TRANSISTOR DTC114EK   |        |
| IC3309       | 8-759-046-27  | IC SDA9086-3                  |        | Q3334        | 8-729-900-53 | TRANSISTOR DTC114EK   |        |
| IC3310       | 8-759-112-06  | IC UPC78N05H                  |        | Q3335        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC3311       | 8-759-112-06  | IC UPC78N05H                  |        | Q3336        | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC3312       | 8-759-009-06  | IC MC14052BF                  |        | Q3337        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| IC3313       | 8-759-009-10  | IC MC14069UBF                 |        | Q3338        | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| <COIL>       |               |                               |        | Q3339        | 8-729-901-01 | TRANSISTOR DTC144EK   |        |
| L3301        | 1-408-424-00  | INDUCTOR 180UH                |        | <RESISTOR>   |              |                       |        |
| L3302        | 1-408-424-00  | INDUCTOR 180UH                |        | R3301        | 1-216-033-00 | METAL GLAZE 220 5%    | 1/10W  |
| L3303        | 1-404-554-11  | COIL                          |        | R3302        | 1-216-073-00 | METAL GLAZE 10K 5%    | 1/10W  |
| L3304        | 1-408-421-00  | INDUCTOR 100UH                |        | R3303        | 1-216-049-00 | METAL GLAZE 1K 5%     | 1/10W  |
| L3305        | 1-408-421-00  | INDUCTOR 100UH                |        | R3304        | 1-216-033-00 | METAL GLAZE 220 5%    | 1/10W  |
| L3306        | 1-410-470-11  | INDUCTOR 10UH                 |        | R3305        | 1-216-073-00 | METAL GLAZE 10K 5%    | 1/10W  |
| L3307        | 1-410-470-11  | INDUCTOR 10UH                 |        | R3306        | 1-216-055-00 | METAL GLAZE 1.8K 5%   | 1/10W  |
| L3308        | 1-410-472-41  | INDUCTOR 15UH                 |        | R3307        | 1-216-073-00 | METAL GLAZE 10K 5%    | 1/10W  |
| L3309        | 1-410-472-41  | INDUCTOR 15UH                 |        | R3308        | 1-216-047-00 | METAL GLAZE 820 5%    | 1/10W  |
| L3310        | 1-410-472-41  | INDUCTOR 15UH                 |        | R3309        | 1-216-047-00 | METAL GLAZE 820 5%    | 1/10W  |
| L3311        | 1-410-466-41  | INDUCTOR 4.7UH                |        | R3310        | 1-216-073-00 | METAL GLAZE 10K 5%    | 1/10W  |
|              |               |                               |        | R3311        | 1-216-025-00 | METAL GLAZE 100 5%    | 1/10W  |
|              |               |                               |        | R3312        | 1-216-057-00 | METAL GLAZE 2.2K 5%   | 1/10W  |
|              |               |                               |        | R3313        | 1-216-047-00 | METAL GLAZE 820 5%    | 1/10W  |
|              |               |                               |        | R3314        | 1-216-053-00 | METAL GLAZE 1.5K 5%   | 1/10W  |
|              |               |                               |        | R3315        | 1-216-047-00 | METAL GLAZE 820 5%    | 1/10W  |
|              |               |                               |        | R3316        | 1-216-061-00 | METAL GLAZE 3.3K 5%   | 1/10W  |
|              |               |                               |        | R3318        | 1-216-061-00 | METAL GLAZE 3.3K 5%   | 1/10W  |
|              |               |                               |        | R3319        | 1-216-041-00 | METAL GLAZE 470 5%    | 1/10W  |
|              |               |                               |        | R3320        | 1-216-057-00 | METAL GLAZE 2.2K 5%   | 1/10W  |

| REF. NO. | PART NO.     | DESCRIPTION |       |      |       |       |
|----------|--------------|-------------|-------|------|-------|-------|
| R3321    | 1-216-295-00 | METAL       | GLAZE | 0    | 5%    | 1/10W |
| R3322    | 1-216-033-00 | METAL       | GLAZE | 220  | 5%    | 1/10W |
| R3323    | 1-216-053-00 | METAL       | GLAZE | 1.5K | 5%    | 1/10W |
| R3324    | 1-216-039-00 | METAL       | GLAZE | 390  | 5%    | 1/10W |
| R3325    | 1-216-033-00 | METAL       | GLAZE | 220  | 5%    | 1/10W |
| R3326    | 1-216-089-00 | METAL       | GLAZE | 47K  | 5%    | 1/10W |
| R3327    | 1-216-073-00 | METAL       | GLAZE | 10K  | 5%    | 1/10W |
| R3328    | 1-216-097-00 | METAL       | GLAZE | 100K | 5%    | 1/10W |
| R3329    | 1-216-121-00 | METAL       | GLAZE | 1M   | 5%    | 1/10W |
| R3330    | 1-216-089-00 | METAL       | GLAZE | 47K  | 5%    | 1/10W |
| R3331    | 1-216-025-00 | METAL       | GLAZE | 100  | 5%    | 1/10W |
| R3332    | 1-216-073-00 | METAL       | GLAZE | 10K  | 5%    | 1/10W |
| R3333    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3334    | 1-216-184-00 | METAL       | GLAZE | 270  | 5%    | 1/8W  |
| R3335    | 1-216-073-00 | METAL       | GLAZE | 10K  | 5%    | 1/10W |
| R3337    | 1-216-184-00 | METAL       | GLAZE | 270  | 5%    | 1/8W  |
| R3338    | 1-216-001-00 | METAL       | GLAZE | 10   | 5%    | 1/10W |
| R3339    | 1-216-073-00 | METAL       | GLAZE | 10K  | 5%    | 1/10W |
| R3341    | 1-216-051-00 | METAL       | GLAZE | 1.2K | 5%    | 1/10W |
| R3342    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3343    | 1-216-001-00 | METAL       | GLAZE | 10   | 5%    | 1/10W |
| R3344    | 1-216-049-00 | METAL       | GLAZE | 1K   | 5%    | 1/10W |
| R3345    | 1-216-121-00 | METAL       | GLAZE | 1M   | 5%    | 1/10W |
| R3346    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3347    | 1-216-081-00 | METAL       | GLAZE | 22K  | 5%    | 1/10W |
| R3348    | 1-216-089-00 | METAL       | GLAZE | 47K  | 5%    | 1/10W |
| R3349    | 1-216-677-11 | METAL       | CHIP  | 12K  | 0.50% | 1/10W |
| R3350    | 1-216-057-00 | METAL       | GLAZE | 2.2K | 5%    | 1/10W |
| R3351    | 1-216-081-00 | METAL       | GLAZE | 22K  | 5%    | 1/10W |
| R3352    | 1-216-063-00 | METAL       | GLAZE | 3.9K | 5%    | 1/10W |
| R3353    | 1-216-085-00 | METAL       | GLAZE | 33K  | 5%    | 1/10W |
| R3354    | 1-216-057-00 | METAL       | GLAZE | 2.2K | 5%    | 1/10W |
| R3355    | 1-216-075-00 | METAL       | GLAZE | 12K  | 5%    | 1/10W |
| R3358    | 1-216-099-00 | METAL       | GLAZE | 120K | 5%    | 1/10W |
| R3359    | 1-216-097-00 | METAL       | GLAZE | 100K | 5%    | 1/10W |
| R3360    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3361    | 1-216-109-00 | METAL       | GLAZE | 330K | 5%    | 1/10W |
| R3362    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3363    | 1-216-047-00 | METAL       | GLAZE | 820  | 5%    | 1/10W |
| R3364    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3365    | 1-216-045-00 | METAL       | GLAZE | 680  | 5%    | 1/10W |
| R3366    | 1-216-081-00 | METAL       | GLAZE | 22K  | 5%    | 1/10W |
| R3367    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3368    | 1-216-295-00 | METAL       | GLAZE | 0    | 5%    | 1/10W |
| R3369    | 1-216-079-00 | METAL       | GLAZE | 18K  | 5%    | 1/10W |
| R3370    | 1-216-057-00 | METAL       | GLAZE | 2.2K | 5%    | 1/10W |
| R3372    | 1-216-295-00 | METAL       | GLAZE | 0    | 5%    | 1/10W |
| R3373    | 1-216-083-00 | METAL       | GLAZE | 27K  | 5%    | 1/10W |
| R3374    | 1-216-053-00 | METAL       | GLAZE | 1.5K | 5%    | 1/10W |
| R3375    | 1-216-045-00 | METAL       | GLAZE | 680  | 5%    | 1/10W |
| R3376    | 1-216-073-00 | METAL       | GLAZE | 10K  | 5%    | 1/10W |
| R3377    | 1-216-089-00 | METAL       | GLAZE | 47K  | 5%    | 1/10W |
| R3378    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3379    | 1-216-053-00 | METAL       | GLAZE | 1.5K | 5%    | 1/10W |
| R3380    | 1-216-049-00 | METAL       | GLAZE | 1K   | 5%    | 1/10W |
| R3382    | 1-216-033-00 | METAL       | GLAZE | 220  | 5%    | 1/10W |
| R3383    | 1-216-065-00 | METAL       | GLAZE | 4.7K | 5%    | 1/10W |
| R3384    | 1-216-295-00 | METAL       | GLAZE | 0    | 5%    | 1/10W |
| R3385    | 1-216-033-00 | METAL       | GLAZE | 220  | 5%    | 1/10W |
| R3386    | 1-216-057-00 | METAL       | GLAZE | 2.2K | 5%    | 1/10W |
| R3387    | 1-216-049-00 | METAL       | GLAZE | 1K   | 5%    | 1/10W |
| R3388    | 1-216-041-00 | METAL       | GLAZE | 470  | 5%    | 1/10W |
| R3389    | 1-216-041-00 | METAL       | GLAZE | 470  | 5%    | 1/10W |
| R3390    | 1-216-049-00 | METAL       | GLAZE | 1K   | 5%    | 1/10W |

| REMARK | REF. NO. | PART NO.     | DESCRIPTION         |      |    | REMARK |
|--------|----------|--------------|---------------------|------|----|--------|
|        | R3391    | 1-216-057-00 | METAL GLAZE         | 2.2K | 5% | 1/10W  |
|        | R3392    | 1-216-113-00 | METAL GLAZE         | 470K | 5% | 1/10W  |
|        | R3393    | 1-216-033-00 | METAL GLAZE         | 220  | 5% | 1/10W  |
|        | R3394    | 1-216-025-00 | METAL GLAZE         | 100  | 5% | 1/10W  |
|        | R3395    | 1-216-063-00 | METAL GLAZE         | 3.9K | 5% | 1/10W  |
|        | R3396    | 1-216-059-00 | METAL GLAZE         | 2.7K | 5% | 1/10W  |
|        | R3397    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3398    | 1-216-073-00 | METAL GLAZE         | 10K  | 5% | 1/10W  |
|        | R3399    | 1-216-029-00 | METAL GLAZE         | 150  | 5% | 1/10W  |
|        | R3400    | 1-216-041-00 | METAL GLAZE         | 470  | 5% | 1/10W  |
|        | R3401    | 1-216-039-00 | METAL GLAZE         | 390  | 5% | 1/10W  |
|        | R3402    | 1-216-039-00 | METAL GLAZE         | 390  | 5% | 1/10W  |
|        | R3404    | 1-216-065-00 | METAL GLAZE         | 4.7K | 5% | 1/10W  |
|        | R3406    | 1-216-035-00 | METAL GLAZE         | 270  | 5% | 1/10W  |
|        | R3407    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3408    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3409    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3410    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3411    | 1-216-073-00 | METAL GLAZE         | 10K  | 5% | 1/10W  |
|        | R3414    | 1-216-689-11 | METAL GLAZE         | 39K  | 5% | 1/10W  |
|        | R3415    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3417    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3418    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3419    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3420    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3421    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3422    | 1-249-484-91 | CARBON              | 6.8  | 5% | 1/2W F |
|        | R3423    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3425    | 1-216-025-00 | METAL GLAZE         | 100  | 5% | 1/10W  |
|        | R3426    | 1-216-033-00 | METAL GLAZE         | 220  | 5% | 1/10W  |
|        | R3427    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3428    | 1-216-041-00 | METAL GLAZE         | 470  | 5% | 1/10W  |
|        | R3429    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3430    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3431    | 1-216-035-00 | METAL GLAZE         | 270  | 5% | 1/10W  |
|        | R3432    | 1-216-073-00 | METAL GLAZE         | 10K  | 5% | 1/10W  |
|        | R3434    | 1-216-073-00 | METAL GLAZE         | 10K  | 5% | 1/10W  |
|        | R3435    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3436    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3437    | 1-216-041-00 | METAL GLAZE         | 470  | 5% | 1/10W  |
|        | R3438    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3439    | 1-216-035-00 | METAL GLAZE         | 270  | 5% | 1/10W  |
|        | R3443    | 1-216-073-00 | METAL GLAZE         | 10K  | 5% | 1/10W  |
|        | R3444    | 1-216-067-00 | METAL GLAZE         | 5.6K | 5% | 1/10W  |
|        | R3445    | 1-216-121-00 | METAL GLAZE         | 1M   | 5% | 1/10W  |
|        | R3446    | 1-216-069-00 | METAL GLAZE         | 6.8K | 5% | 1/10W  |
|        | R3447    | 1-216-065-00 | METAL GLAZE         | 4.7K | 5% | 1/10W  |
|        | R3448    | 1-216-119-00 | METAL GLAZE         | 820K | 5% | 1/10W  |
|        | R3449    | 1-216-065-00 | METAL GLAZE         | 4.7K | 5% | 1/10W  |
|        | R3450    | 1-216-081-00 | METAL GLAZE         | 22K  | 5% | 1/10W  |
|        | R3451    | 1-216-081-00 | METAL GLAZE         | 22K  | 5% | 1/10W  |
|        | R3452    | 1-216-033-00 | METAL GLAZE         | 220  | 5% | 1/10W  |
|        | R3454    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3455    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3457    | 1-216-049-00 | METAL GLAZE         | 1K   | 5% | 1/10W  |
|        | R3458    | 1-216-295-00 | METAL GLAZE         | 0    | 5% | 1/10W  |
|        | R3459    | 1-216-073-00 | METAL GLAZE         | 10K  | 5% | 1/10W  |
|        | R3461    | 1-216-101-00 | METAL GLAZE         | 150K | 5% | 1/10W  |
|        | R3462    | 1-216-101-00 | METAL GLAZE         | 150K | 5% | 1/10W  |
|        |          |              | <VARIABLE RESISTOR> |      |    |        |
|        | RV3301   | 1-241-119-11 | RES, ADJ, CARBON 1K |      |    |        |

Bp

B

| REF.NO.       | PART NO.          | DESCRIPTION                 | REMARK  | REF.NO. | PART NO.     | DESCRIPTION                 | REMARK   |
|---------------|-------------------|-----------------------------|---------|---------|--------------|-----------------------------|----------|
| RV3302        | 1-241-632-11      | RES, ADJ, CARBON 47K        |         | C342    | 1-126-157-11 | ELECT 10MF                  | 20% 16V  |
|               |                   | <TRANSFORMER>               |         | C343    | 1-126-101-11 | ELECT 100MF                 | 20% 16V  |
| T3301         | 1-404-584-11      | COIL                        |         | C344    | 1-126-320-11 | ELECT 10MF                  | 20% 16V  |
|               |                   | <CRYSTAL>                   |         | C346    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| X3301         | 1-567-413-11      | VIBRATOR, CRYSTAL           |         | C347    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| X3304         | 1-527-789-00      | VINRATOR, CRYSTAL           |         | C348    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| X3305         | 1-577-360-11      | VIBRATOR, CERAMIC           |         | C350    | 1-124-903-11 | ELECT 1MF                   | 20% 50V  |
| *****         |                   |                             |         | C351    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| *A-1135-741-A | B BOARD, COMPLETE | (KV-S29JN1, S29MN1, S29SN1) |         | C352    | 1-136-489-81 | FILM 0.022MF                | 5% 50V   |
| *A-1135-718-A | B BOARD, COMPLETE | (KV-S34JN1, S34MN1, S34SN1) |         | C353    | 1-163-033-00 | CERAMIC CHIP 0.022MF        | 50V      |
|               |                   |                             |         | C354    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| 1-402-699-11  | DELAY LINE        |                             |         | C355    | 1-124-903-11 | ELECT 1MF                   | 20% 50V  |
|               |                   | <CAPACITOR>                 |         | C356    | 1-126-103-11 | ELECT 470MF                 | 20% 16V  |
| C301          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C357    | 1-136-493-81 | FILM 0.047MF                | 5% 50V   |
| C302          | 1-124-482-11      | ELECT 33MF                  | 20% 25V | C358    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| C303          | 1-163-117-00      | CERAMIC CHIP 100PF          | 5% 50V  | C359    | 1-136-171-00 | FILM 0.33MF                 | 5% 50V   |
| C304          | 1-163-117-00      | CERAMIC CHIP 100PF          | 5% 50V  | C360    | 1-124-907-11 | ELECT 10MF                  | 20% 50V  |
| C305          | 1-124-478-11      | ELECT 100MF                 | 20% 25V | C361    | 1-163-237-11 | CERAMIC CHIP 27PF           | 5% 50V   |
| C306          | 1-124-477-11      | ELECT 47MF                  | 20% 16V | C362    | 1-163-119-00 | CERAMIC CHIP 120PF          | 5% 50V   |
| C307          | 1-124-903-11      | ELECT 1MF                   | 20% 50V | C363    | 1-216-037-00 | METAL GLAZE 330 5%          | 1/10W    |
| C308          | 1-124-903-11      | ELECT 1MF                   | 20% 50V | C364    | 1-136-497-81 | FILM 0.1MF                  | 5% 50V   |
| C309          | 1-126-233-11      | ELECT 22MF                  | 20% 25V | C365    | 1-124-477-11 | ELECT 47MF                  | 20% 16V  |
| C310          | 1-164-232-11      | CERAMIC CHIP 0.01MF         | 10% 50V | C366    | 1-124-907-11 | ELECT 10MF                  | 20% 50V  |
| C311          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C367    | 1-216-037-00 | METAL GLAZE 330 5%          | 1/10W    |
| C312          | 1-124-034-51      | ELECT 33MF                  | 20% 16V | C368    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| C313          | 1-124-478-11      | ELECT 100MF                 | 20% 25V | C369    | 1-163-237-11 | CERAMIC CHIP 27PF           | 5% 50V   |
| C314          | 1-126-233-11      | ELECT 22MF                  | 20% 25V | C370    | 1-136-489-81 | FILM 0.022MF                | 5% 50V   |
| C315          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C371    | 1-124-907-11 | ELECT 10MF                  | 20% 50V  |
| C316          | 1-126-233-11      | ELECT 22MF                  | 20% 25V | C372    | 1-136-497-81 | FILM 0.1MF                  | 5% 50V   |
| C317          | 1-124-477-11      | ELECT 47MF                  | 20% 16V | C373    | 1-136-489-81 | FILM 0.022MF                | 5% 50V   |
| C318          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C374    | 1-136-497-81 | FILM 0.1MF                  | 5% 50V   |
| C319          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C375    | 1-163-125-00 | CERAMIC CHIP 220PF          | 5% 50V   |
| C320          | 1-124-034-51      | ELECT 33MF                  | 20% 16V | C376    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| C321          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C377    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| C322          | 1-124-903-11      | ELECT 1MF                   | 20% 50V | C378    | 1-124-477-11 | ELECT 47MF                  | 20% 25V  |
| C323          | 1-124-910-11      | ELECT 47MF                  | 20% 50V | C379    | 1-163-123-00 | CERAMIC CHIP 180PF          | 5% 50V   |
| C324          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C380    | 1-124-907-11 | ELECT 10MF                  | 20% 50V  |
| C325          | 1-126-233-11      | ELECT 22MF                  | 20% 25V | C381    | 1-102-129-00 | CERAMIC 0.01MF              | 10% 50V  |
| C326          | 1-126-233-11      | ELECT 22MF                  | 20% 25V | C382    | 1-163-121-00 | CERAMIC CHIP 150PF          | 5% 50V   |
| C327          | 1-126-233-11      | ELECT 22MF                  | 20% 25V | C383    | 1-124-790-11 | ELECT 0.47MF                | 20% 100V |
| C328          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C384    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| C329          | 1-124-120-11      | ELECT 220MF                 | 20% 16V | C385    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| C330          | 1-163-017-00      | CERAMIC CHIP 0.0047MF       | 10% 50V | C386    | 1-136-497-81 | FILM 0.1MF                  | 5% 50V   |
| C331          | 1-126-103-11      | ELECT 470MF                 | 20% 16V | C387    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| C332          | 1-163-031-11      | CERAMIC CHIP 0.01MF         | 50V     | C388    | 1-164-004-11 | CERAMIC CHIP 0.1MF          | 10% 25V  |
| C333          | 1-126-103-11      | ELECT 470MF                 | 20% 16V | C389    | 1-136-497-81 | FILM 0.1MF                  | 5% 50V   |
| C334          | 1-124-902-00      | ELECT 0.47MF                | 20% 50V | C390    | 1-124-910-11 | ELECT 47MF                  | 20% 50V  |
| C335          | 1-124-902-00      | ELECT 0.47MF                | 20% 50V | C391    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
| C336          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C392    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| C338          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C393    | 1-163-031-11 | CERAMIC CHIP 0.01MF         | 50V      |
| C339          | 1-124-907-11      | ELECT 10MF                  | 20% 50V | C394    | 1-163-025-11 | CERAMIC CHIP 0.001MF        | 50V      |
| C340          | 1-126-101-11      | ELECT 100MF                 | 20% 16V | C395    | 1-136-153-00 | FILM 0.01MF                 | 5% 50V   |
| C341          | 1-163-009-11      | CERAMIC CHIP 0.001MF        | 10% 50V | C396    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
|               |                   |                             |         | C397    | 1-136-169-00 | FILM 0.22MF                 | 5% 50V   |
|               |                   |                             |         |         |              | (KV-S29JN1, S29MN1, S29SN1) |          |
|               |                   |                             |         |         | 1-136-497-81 | FILM 0.1MF                  | 5% 50V   |
|               |                   |                             |         |         |              | (KV-S34JN1, S34MN1, S34SN1) |          |
|               |                   |                             |         | C398    | 1-163-025-11 | CERAMIC CHIP 0.001MF        | 50V      |
|               |                   |                             |         | C399    | 1-136-165-00 | FILM 0.1MF                  | 5% 50V   |
|               |                   |                             |         | C400    | 1-124-034-51 | ELECT 33MF                  | 20% 16V  |
|               |                   |                             |         | C401    | 1-124-902-00 | ELECT 0.47MF                | 20% 50V  |
|               |                   |                             |         | C402    | 1-124-556-11 | ELECT 2200MF                | 20% 16V  |
|               |                   |                             |         | C403    | 1-124-910-11 | ELECT 47MF                  | 20% 50V  |
|               |                   |                             |         | C404    | 1-164-004-11 | CERAMIC CHIP 0.1MF          | 10% 25V  |



B

| REF.NO.     | PART NO.      | DESCRIPTION                   | REMARK                                                                     | REF.NO.      | PART NO.     | DESCRIPTION     | REMARK |
|-------------|---------------|-------------------------------|----------------------------------------------------------------------------|--------------|--------------|-----------------|--------|
| C405        | 1-163-031-11  | CERAMIC CHIP                  | 0.01MF 50V                                                                 | D303         | 8-719-400-75 | DIODE MA3091    |        |
| C406        | 1-136-169-00  | FILM                          | 0.22MF 5% 50V                                                              | D304         | 8-719-400-75 | DIODE MA3091    |        |
|             | 1-136-497-81  | FILM                          | 0.1MF 5% 50V<br>(KV-S29JN1, S29MN1, S29SN1)<br>(KV-S34JN1, S34MN1, S34SN1) | D305         | 8-719-400-75 | DIODE MA3091    |        |
| C407        | 1-164-004-11  | CERAMIC CHIP                  | 0.1MF 10% 25V                                                              | D306         | 8-719-400-51 | DIODE MA3062    |        |
| C408        | 1-126-101-11  | ELECT                         | 100MF 20% 16V                                                              | D307         | 8-719-400-51 | DIODE MA3062    |        |
| C409        | 1-136-169-00  | FILM                          | 0.22MF 5% 50V                                                              | D308         | 8-719-800-76 | DIODE 1SS226    |        |
|             | 1-136-497-81  | FILM                          | 0.1MF 5% 50V<br>(KV-S29JN1, S29MN1, S29SN1)<br>(KV-S34JN1, S34MN1, S34SN1) | D309         | 8-719-800-76 | DIODE 1SS226    |        |
| C410        | 1-137-190-51  | FILM                          | 0.22MF 5% 50V                                                              | D310         | 8-719-800-76 | DIODE 1SS226    |        |
| C411        | 1-124-903-11  | ELECT                         | 1MF 20% 50V                                                                | D311         | 8-719-800-76 | DIODE 1SS226    |        |
| C412        | 1-136-153-00  | FILM                          | 0.01MF 5% 50V                                                              | D312         | 8-719-800-76 | DIODE 1SS226    |        |
| C413        | 1-126-101-11  | ELECT                         | 100MF 20% 16V                                                              | D313         | 8-719-800-76 | DIODE 1SS226    |        |
| C414        | 1-130-479-00  | MYLAR                         | 0.0047MF 5% 50V                                                            | D314         | 8-719-800-76 | DIODE 1SS226    |        |
| C415        | 1-136-175-00  | FILM                          | 0.68MF 5% 50V                                                              | D315         | 8-719-105-91 | DIODE RD5.6M-B2 |        |
| C416        | 1-136-153-00  | FILM                          | 0.01MF 5% 50V                                                              | D317         | 8-719-400-84 | DIODE MA3110    |        |
| C417        | 1-163-157-00  | FILM                          | 0.022MF 5% 50V                                                             | D318         | 8-719-400-84 | DIODE MA3110    |        |
| C418        | 1-124-927-11  | ELECT                         | 4.7MF 20% 50V                                                              | D319         | 8-719-400-84 | DIODE MA3110    |        |
| C419        | 1-163-077-00  | CERAMIC CHIP                  | 0.1MF 10% 25V                                                              | D320         | 8-719-400-84 | DIODE MA3110    |        |
| C422        | 1-124-902-00  | ELECT                         | 0.47MF 20% 50V                                                             | D322         | 8-719-800-76 | DIODE 1SS226    |        |
| C423        | 1-124-902-00  | ELECT                         | 0.47MF 20% 50V                                                             | D323         | 8-719-105-91 | DIODE RD5.6M-B2 |        |
| C424        | 1-124-463-00  | ELECT                         | 0.1MF 20% 50V                                                              | D324         | 8-719-800-76 | DIODE 1SS226    |        |
| C425        | 1-126-530-11  | ELECT                         | 22MF 20% 50V                                                               | D328         | 8-719-800-76 | DIODE 1SS226    |        |
| C426        | 1-126-101-11  | ELECT                         | 100MF 20% 16V                                                              | D329         | 8-719-800-76 | DIODE 1SS226    |        |
| C427        | 1-163-031-11  | CERAMIC CHIP                  | 0.01MF 50V                                                                 | D330         | 8-719-800-76 | DIODE 1SS226    |        |
| C428        | 1-136-497-81  | FILM                          | 0.1MF 5% 50V                                                               | D331         | 8-719-800-76 | DIODE 1SS226    |        |
| C429        | 1-126-101-11  | ELECT                         | 100MF 20% 16V                                                              | D332         | 8-719-800-76 | DIODE 1SS226    |        |
| C430        | 1-126-101-11  | ELECT                         | 100MF 20% 16V                                                              | D333         | 8-719-800-76 | DIODE 1SS226    |        |
| C434        | 1-101-880-00  | CERAMIC                       | 47PF 5% 50V                                                                | D334         | 8-719-800-76 | DIODE 1SS226    |        |
| C438        | 1-124-477-11  | ELECT                         | 47MF 20% 16V                                                               | D335         | 8-719-400-46 | DIODE MA3056-L  |        |
| C439        | 1-126-101-11  | ELECT                         | 100MF 20% 16V                                                              | D336         | 8-719-800-76 | DIODE 1SS226    |        |
| C440        | 1-124-903-11  | ELECT                         | 1MF 20% 50V                                                                | D337         | 8-719-800-76 | DIODE 1SS226    |        |
| C441        | 1-124-907-11  | ELECT                         | 10MF 20% 50V                                                               | D338         | 8-719-800-76 | DIODE 1SS226    |        |
| C442        | 1-124-927-11  | ELECT                         | 4.7MF 20% 50V                                                              | D339         | 8-719-800-76 | DIODE 1SS226    |        |
| C443        | 1-163-133-00  | CERAMIC CHIP                  | 470PF 5% 50V                                                               | D340         | 8-719-800-76 | DIODE 1SS226    |        |
| C444        | 1-124-902-00  | ELECT                         | 0.47MF 20% 50V                                                             | D341         | 8-719-800-76 | DIODE 1SS226    |        |
| C445        | 1-164-004-11  | CERAMIC CHIP                  | 0.1MF 10% 25V                                                              | D427         | 8-719-800-76 | DIODE 1SS226    |        |
| C446        | 1-163-009-11  | CERAMIC CHIP                  | 0.001MF 10% 50V                                                            | D428         | 8-719-800-76 | DIODE 1SS226    |        |
| C447        | 1-163-009-11  | CERAMIC CHIP                  | 0.001MF 10% 50V                                                            | D429         | 8-719-800-76 | DIODE 1SS226    |        |
| C450        | 1-124-902-00  | ELECT                         | 0.47MF 20% 50V                                                             | D430         | 8-719-800-76 | DIODE 1SS226    |        |
| C452        | 1-102-959-00  | CERAMIC                       | 22PF 5% 50V                                                                | D431         | 8-719-800-76 | DIODE 1SS226    |        |
| <CONNECTOR> |               |                               |                                                                            | D432         | 8-719-800-76 | DIODE 1SS226    |        |
| CN301       | *1-573-962-11 | CONNECTOR (MALE) 50P          |                                                                            | D433         | 8-719-800-76 | DIODE 1SS226    |        |
| CN302       | *1-564-509-11 | PLUG, CONNECTOR 6P            |                                                                            | D434         | 8-719-800-76 | DIODE 1SS226    |        |
| CN303       | *1-573-962-11 | CONNECTOR (MALE) 50P          |                                                                            | D435         | 8-719-800-76 | DIODE 1SS226    |        |
| CN305       | *1-564-516-11 | PLUG, CONNECTOR 13P           |                                                                            | D436         | 8-719-800-76 | DIODE 1SS226    |        |
| CN306       | *1-564-513-11 | PLUG, CONNECTOR 10P           |                                                                            | D437         | 8-719-800-76 | DIODE 1SS226    |        |
| CN307       | *1-564-514-11 | PLUG, CONNECTOR 11P           |                                                                            | D439         | 8-719-800-76 | DIODE 1SS226    |        |
| CN308       | *1-565-930-11 | CONNECTOR (RECEPTACLE) 30P    |                                                                            | D442         | 8-719-800-76 | DIODE 1SS226    |        |
| CN309       | *1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) |                                                                            | D448         | 8-719-800-76 | DIODE 1SS226    |        |
| <TRIMMER>   |               |                               |                                                                            | D450         | 8-719-800-76 | DIODE 1SS226    |        |
| CT303       | 1-141-245-00  | TRIMMER, CERAMIC              |                                                                            | D451         | 8-719-106-44 | DIODE RD9.1M-B2 |        |
| CT304       | 1-141-245-00  | TRIMMER, CERAMIC              |                                                                            | D452         | 8-719-106-44 | DIODE RD9.1M-B2 |        |
| <DIODE>     |               |                               |                                                                            | D453         | 8-719-106-44 | DIODE RD9.1M-B2 |        |
| D301        | 8-719-400-75  | DIODE MA3091                  |                                                                            | <DELAY LINE> |              |                 |        |
| D302        | 8-719-400-75  | DIODE MA3091                  |                                                                            | DL301        | 1-415-914-11 | DELAY LINE      |        |
| <IC>        |               |                               |                                                                            | <IC>         |              |                 |        |
| IC301       | 8-752-056-50  | IC CXA1545S                   |                                                                            | IC301        | 8-752-056-50 | IC CXA1545S     |        |
| IC302       | 8-759-008-67  | IC MC14066BF                  |                                                                            | IC302        | 8-759-008-67 | IC MC14066BF    |        |
| IC303       | 8-752-058-68  | IC CXA1315M                   |                                                                            | IC303        | 8-752-058-68 | IC CXA1315M     |        |
| IC304       | 8-759-008-67  | IC MC14066BF                  |                                                                            | IC304        | 8-759-008-67 | IC MC14066BF    |        |
| IC305       | 8-752-012-52  | IC CX20125                    |                                                                            | IC305        | 8-752-012-52 | IC CX20125      |        |

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| REF.NO.      | PART NO.     | DESCRIPTION                     | REMARK | REF.NO. | PART NO.     | DESCRIPTION           | REMARK |
|--------------|--------------|---------------------------------|--------|---------|--------------|-----------------------|--------|
| IC306        | 8-759-800-81 | IC LA7016                       |        | Q329    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| IC307        | 8-752-037-15 | IC CXA1387S                     |        | Q330    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| IC308        | 8-759-009-06 | IC MC14052BF                    |        | Q331    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| IC309        | 8-759-011-65 | IC MC74HC4053F                  |        | Q332    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| IC310        | 8-759-009-06 | IC MC14052BF                    |        | Q333    | 8-729-900-89 | TRANSISTOR DTC1144ES  |        |
| IC311        | 8-759-013-86 | IC MC74HC4066F                  |        | Q335    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC312        | 8-759-013-86 | IC MC74HC4066F                  |        | Q336    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC313        | 8-759-800-81 | IC LA7016                       |        | Q337    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC314        | 8-759-802-23 | IC L780512                      |        | Q338    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
|              | 4-382-854-11 | SCREW (M3X10), P, SW (+); IC314 |        | Q339    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| IC315        | 8-759-521-22 | IC TDA4650/V4                   |        | Q340    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC316        | 8-759-505-39 | IC TDA4660V2                    |        | Q341    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| IC317        | 8-759-009-46 | IC MC145288F                    |        | Q342    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| IC318        | 8-759-517-43 | IC TDA4580-V7                   |        | Q343    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC319        | 8-759-909-70 | IC CX23025                      |        | Q344    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| IC320        | 8-759-513-48 | IC TDA2595/V9                   |        | Q345    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC321        | 8-759-011-65 | IC MC74HC4053F                  |        | Q346    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| IC322        | 8-759-800-81 | IC LA7016                       |        | Q347    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| <COIL>       |              |                                 |        | Q348    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L301         | 1-410-473-11 | INDUCTOR 18UH                   |        | Q349    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L302         | 1-410-473-11 | INDUCTOR 18UH                   |        | Q350    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L303         | 1-410-667-31 | INDUCTOR 22UH                   |        | Q351    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L304         | 1-404-554-11 | COIL                            |        | Q354    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L305         | 1-410-466-41 | INDUCTOR 4.7UH                  |        | Q356    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L306         | 1-408-421-00 | INDUCTOR 100UH                  |        | Q357    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L307         | 1-408-421-00 | INDUCTOR 100UH                  |        | Q358    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L308         | 1-410-466-41 | INDUCTOR 4.7UH                  |        | Q359    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L309         | 1-410-466-41 | INDUCTOR 4.7UH                  |        | Q360    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L310         | 1-410-466-41 | INDUCTOR 4.7UH                  |        | Q361    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L311         | 1-410-466-41 | INDUCTOR 4.7UH                  |        | Q362    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| L312         | 1-408-417-00 | INDUCTOR 47UH                   |        | Q365    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| <TRANSISTOR> |              |                                 |        | Q366    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| Q301         | 8-729-230-49 | TRANSISTOR 2SC2712-YG           |        | Q367    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q302         | 8-729-230-49 | TRANSISTOR 2SC2712-YG           |        | Q368    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q303         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q369    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q304         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q370    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q305         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q371    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q306         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q372    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q307         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q373    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| Q308         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q374    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q309         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q375    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q310         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q376    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q311         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q377    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| Q312         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q378    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| Q313         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q379    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q314         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q380    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q315         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q381    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q316         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q382    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q317         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q385    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q318         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q386    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q319         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q387    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
| Q320         | 8-729-230-49 | TRANSISTOR 2SC2712-YG           |        | Q389    | 8-729-901-04 | TRANSISTOR DTA1144EK  |        |
| Q321         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q390    | 8-729-901-04 | TRANSISTOR DTA1144EK  |        |
| Q322         | 8-729-901-00 | TRANSISTOR DTC124EK             |        | Q391    | 8-729-901-04 | TRANSISTOR DTA1144EK  |        |
| Q323         | 8-729-901-00 | TRANSISTOR DTC124EK             |        | Q392    | 8-729-901-04 | TRANSISTOR DTA1144EK  |        |
| Q324         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q393    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| Q325         | 8-729-230-49 | TRANSISTOR 2SC2712-YG           |        | Q394    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| Q326         | 8-729-230-49 | TRANSISTOR 2SC2712-YG           |        | Q395    | 8-729-900-53 | TRANSISTOR DTC1144EK  |        |
| Q327         | 8-729-230-49 | TRANSISTOR 2SC2712-YG           |        | Q396    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
| Q328         | 8-729-230-46 | TRANSISTOR 2SA1162-YG           |        | Q397    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |
|              |              |                                 |        | Q398    | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |
|              |              |                                 |        | Q399    | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        |

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| REF. NO. | PART NO.     | DESCRIPTION           | REMARK | REF. NO. | PART NO.     | DESCRIPTION         | REMARK |
|----------|--------------|-----------------------|--------|----------|--------------|---------------------|--------|
| Q400     | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        | R348     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
| Q401     | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        | R349     | 1-216-295-00 | METAL GLAZE 0 5%    | 1/10W  |
| Q402     | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        | R350     | 1-216-041-00 | METAL GLAZE 470 5%  | 1/10W  |
| Q403     | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        |          |              |                     |        |
| Q404     | 8-729-808-36 | TRANSISTOR 2SK669     |        | R351     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
| Q405     | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        | R352     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
| Q406     | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        | R353     | 1-216-051-00 | METAL GLAZE 1.2K 5% | 1/10W  |
| Q407     | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        | R354     | 1-216-033-00 | METAL GLAZE 220 5%  | 1/10W  |
| Q408     | 8-729-900-53 | TRANSISTOR DTC114EK   |        | R355     | 1-216-033-00 | METAL GLAZE 220 5%  | 1/10W  |
| Q409     | 8-729-901-01 | TRANSISTOR DTC114EK   |        |          |              |                     |        |
| Q410     | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        | R356     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
| Q441     | 8-729-230-46 | TRANSISTOR 2SA1162-YG |        | R357     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
| Q442     | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        | R358     | 1-216-051-00 | METAL GLAZE 1.2K 5% | 1/10W  |
| Q443     | 8-729-230-49 | TRANSISTOR 2SC2712-YG |        | R359     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
|          |              |                       |        | R360     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R361     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        | R362     | 1-216-041-00 | METAL GLAZE 470 5%  | 1/10W  |
|          |              |                       |        | R363     | 1-216-111-00 | METAL GLAZE 390K 5% | 1/10W  |
|          |              |                       |        | R364     | 1-216-041-00 | METAL GLAZE 470 5%  | 1/10W  |
|          |              |                       |        | R365     | 1-216-081-00 | METAL GLAZE 22K 5%  | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R366     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        | R367     | 1-216-075-00 | METAL GLAZE 12K 5%  | 1/10W  |
|          |              |                       |        | R368     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        | R369     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        | R370     | 1-216-025-00 | METAL GLAZE 100 5%  | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R371     | 1-216-025-00 | METAL GLAZE 100 5%  | 1/10W  |
|          |              |                       |        | R372     | 1-216-025-00 | METAL GLAZE 100 5%  | 1/10W  |
|          |              |                       |        | R373     | 1-216-025-00 | METAL GLAZE 100 5%  | 1/10W  |
|          |              |                       |        | R374     | 1-216-025-00 | METAL GLAZE 100 5%  | 1/10W  |
|          |              |                       |        | R375     | 1-216-035-00 | METAL GLAZE 270 5%  | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R376     | 1-216-035-00 | METAL GLAZE 270 5%  | 1/10W  |
|          |              |                       |        | R377     | 1-216-035-00 | METAL GLAZE 270 5%  | 1/10W  |
|          |              |                       |        | R378     | 1-216-065-00 | METAL GLAZE 4.7K 5% | 1/10W  |
|          |              |                       |        | R379     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        | R380     | 1-216-061-00 | METAL GLAZE 3.3K 5% | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R381     | 1-216-037-00 | METAL GLAZE 330 5%  | 1/10W  |
|          |              |                       |        | R383     | 1-216-089-00 | METAL GLAZE 47K 5%  | 1/10W  |
|          |              |                       |        | R384     | 1-216-065-00 | METAL GLAZE 4.7K 5% | 1/10W  |
|          |              |                       |        | R385     | 1-216-069-00 | METAL GLAZE 6.8K 5% | 1/10W  |
|          |              |                       |        | R386     | 1-216-059-00 | METAL GLAZE 2.7K 5% | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R387     | 1-216-091-00 | METAL GLAZE 56K 5%  | 1/10W  |
|          |              |                       |        | R388     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
|          |              |                       |        | R389     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        | R390     | 1-259-880-11 | CARBON 2.2M 5%      | 1/4W   |
|          |              |                       |        | R391     | 1-216-041-00 | METAL GLAZE 470 5%  | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R392     | 1-216-075-00 | METAL GLAZE 12K 5%  | 1/10W  |
|          |              |                       |        | R393     | 1-216-073-00 | METAL GLAZE 10K 5%  | 1/10W  |
|          |              |                       |        | R394     | 1-216-051-00 | METAL GLAZE 1.2K 5% | 1/10W  |
|          |              |                       |        | R395     | 1-216-039-00 | METAL GLAZE 390 5%  | 1/10W  |
|          |              |                       |        | R396     | 1-216-049-00 | METAL GLAZE 1K 5%   | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R397     | 1-216-067-00 | METAL GLAZE 5.6K 5% | 1/10W  |
|          |              |                       |        | R398     | 1-216-057-00 | METAL GLAZE 2.2K 5% | 1/10W  |
|          |              |                       |        | R399     | 1-216-047-00 | METAL GLAZE 820 5%  | 1/10W  |
|          |              |                       |        | R400     | 1-216-033-00 | METAL GLAZE 220 5%  | 1/10W  |
|          |              |                       |        | R401     | 1-216-033-00 | METAL GLAZE 220 5%  | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R402     | 1-216-113-00 | METAL GLAZE 470K 5% | 1/10W  |
|          |              |                       |        | R403     | 1-216-113-00 | METAL GLAZE 470K 5% | 1/10W  |
|          |              |                       |        | R404     | 1-216-113-00 | METAL GLAZE 470K 5% | 1/10W  |
|          |              |                       |        | R405     | 1-216-113-00 | METAL GLAZE 470K 5% | 1/10W  |
|          |              |                       |        | R406     | 1-216-113-00 | METAL GLAZE 470K 5% | 1/10W  |
|          |              |                       |        |          |              |                     |        |
|          |              |                       |        | R407     | 1-216-081-00 | METAL GLAZE 22K 5%  | 1/10W  |
|          |              |                       |        | R408     | 1-216-033-00 | METAL GLAZE 220 5%  | 1/10W  |
|          |              |                       |        | R409     | 1-216-021-00 | METAL GLAZE 68 5%   | 1/10W  |
|          |              |                       |        | R410     | 1-216-021-00 | METAL GLAZE 68 5%   | 1/10W  |
|          |              |                       |        | R411     | 1-216-021-00 | METAL GLAZE 68 5%   | 1/10W  |

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| REF.NO. | PART NO.     | DESCRIPTION | REMARK        | REF.NO. | PART NO.     | DESCRIPTION | REMARK          |
|---------|--------------|-------------|---------------|---------|--------------|-------------|-----------------|
| R412    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | R479    | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W    |
| R413    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W  | R480    | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W    |
| R414    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R481    | 1-216-069-00 | METAL GLAZE | 6.8K 5% 1/10W   |
| R415    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R483    | 1-216-001-00 | METAL GLAZE | 10 5% 1/10W     |
| R417    | 1-216-041-00 | METAL GLAZE | 470 5% 1/10W  | R484    | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W    |
| R418    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R485    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W   |
| R419    | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W    | R486    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R420    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R487    | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W   |
| R421    | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W  | R489    | 1-216-001-00 | METAL GLAZE | 10 5% 1/10W     |
| R422    | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W    | R491    | 1-216-677-11 | METAL CHIP  | 12K 0.50% 1/10W |
| R423    | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W  | R492    | 1-216-677-11 | METAL CHIP  | 12K 0.50% 1/10W |
| R424    | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W  | R494    | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W   |
| R425    | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W  | R495    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R426    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R496    | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W   |
| R427    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R497    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R428    | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W | R498    | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W    |
| R429    | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W  | R499    | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W    |
| R430    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R500    | 1-216-063-00 | METAL GLAZE | 3.9K 5% 1/10W   |
| R431    | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W  | R501    | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W   |
| R433    | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W | R502    | 1-216-121-00 | METAL GLAZE | 1M 5% 1/10W     |
| R434    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R503    | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W    |
| R435    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R504    | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W   |
| R436    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R505    | 1-216-055-00 | METAL GLAZE | 1.8K 5% 1/10W   |
| R437    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | R506    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R438    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R507    | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W   |
| R439    | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | R508    | 1-216-075-00 | METAL GLAZE | 12K 5% 1/10W    |
| R440    | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | R509    | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W    |
| R441    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R510    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R442    | 1-216-057-00 | METAL GLAZE | 2.2K 5% 1/10W | R511    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R443    | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W | R512    | 1-216-099-00 | METAL GLAZE | 120K 5% 1/10W   |
| R444    | 1-216-051-00 | METAL GLAZE | 1.2K 5% 1/10W | R513    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W    |
| R445    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R514    | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W   |
| R446    | 1-216-295-00 | METAL GLAZE | 0 5% 1/10W    | R515    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W   |
| R447    | 1-216-079-00 | METAL GLAZE | 18K 5% 1/10W  | R516    | 1-216-109-00 | METAL GLAZE | 330K 5% 1/10W   |
| R448    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R517    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W   |
| R449    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R518    | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W    |
| R451    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R519    | 1-216-045-00 | METAL GLAZE | 680 5% 1/10W    |
| R452    | 1-216-041-00 | METAL GLAZE | 470 5% 1/10W  | R520    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R453    | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W  | R521    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W    |
| R454    | 1-216-039-00 | METAL GLAZE | 390 5% 1/10W  | R522    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W     |
| R455    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R523    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R456    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R524    | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W   |
| R457    | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W  | R525    | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W   |
| R458    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R526    | 1-216-079-00 | METAL GLAZE | 18K 5% 1/10W    |
| R459    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R527    | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W   |
| R460    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R528    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R461    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R529    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R462    | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W | R530    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R463    | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W  | R531    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R464    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | R532    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R465    | 1-216-109-00 | METAL GLAZE | 330K 5% 1/10W | R534    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R466    | 1-216-109-00 | METAL GLAZE | 330K 5% 1/10W | R535    | 1-216-067-00 | METAL GLAZE | 5.6K 5% 1/10W   |
| R467    | 1-216-071-00 | METAL GLAZE | 8.2K 5% 1/10W | R536    | 1-216-081-00 | METAL GLAZE | 22K 5% 1/10W    |
| R468    | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  | R537    | 1-216-053-00 | METAL GLAZE | 1.5K 5% 1/10W   |
| R469    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | R538    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W    |
| R470    | 1-216-121-00 | METAL GLAZE | 1M 5% 1/10W   | R539    | 1-216-047-00 | METAL GLAZE | 820 5% 1/10W    |
| R471    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R540    | 1-216-045-00 | METAL GLAZE | 680 5% 1/10W    |
| R472    | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  | R541    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W     |
| R473    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | R542    | 1-216-105-00 | METAL GLAZE | 220K 5% 1/10W   |
| R474    | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  | R543    | 1-216-105-00 | METAL GLAZE | 220K 5% 1/10W   |
| R475    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | R544    | 1-216-105-00 | METAL GLAZE | 220K 5% 1/10W   |
| R476    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R545    | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W   |
| R477    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R546    | 1-216-061-00 | METAL GLAZE | 3.3K 5% 1/10W   |
| R478    | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W  |         |              |             |                 |

| REMARK | REF. NO.            | PART NO.                 | DESCRIPTION       |        |     |       | REMARK |
|--------|---------------------|--------------------------|-------------------|--------|-----|-------|--------|
|        | R623                | 1-216-047-00             | METAL GLAZE       | 820    | 5%  | 1/10W |        |
|        | R624                | 1-216-055-00             | METAL GLAZE       | 1.8K   | 5%  | 1/10W |        |
|        | R625                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R627                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R628                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R629                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R630                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R631                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R632                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R633                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R634                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R635                | 1-216-085-00             | METAL GLAZE       | 33K    | 5%  | 1/10W |        |
|        | R636                | 1-216-085-00             | METAL GLAZE       | 33K    | 5%  | 1/10W |        |
|        | R637                | 1-216-073-00             | METAL GLAZE       | 10K    | 5%  | 1/10W |        |
|        | R638                | 1-216-073-00             | METAL GLAZE       | 10K    | 5%  | 1/10W |        |
|        | R639                | 1-216-295-00             | METAL GLAZE       | 0      | 5%  | 1/10W |        |
|        | R640                | 1-216-085-00             | METAL GLAZE       | 33K    | 5%  | 1/10W |        |
|        | R641                | 1-216-063-00             | METAL GLAZE       | 3.9K   | 5%  | 1/10W |        |
|        | R642                | 1-216-077-00             | METAL GLAZE       | 15K    | 5%  | 1/10W |        |
|        | R643                | 1-216-061-00             | METAL GLAZE       | 3.3K   | 5%  | 1/10W |        |
|        | R644                | 1-216-065-00             | METAL GLAZE       | 4.7K   | 5%  | 1/10W |        |
|        | R645                | 1-216-075-00             | METAL GLAZE       | 12K    | 5%  | 1/10W |        |
|        | R646                | 1-216-061-00             | METAL GLAZE       | 3.3K   | 5%  | 1/10W |        |
|        | R647                | 1-216-073-00             | METAL GLAZE       | 10K    | 5%  | 1/10W |        |
|        | R648                | 1-216-073-00             | METAL GLAZE       | 10K    | 5%  | 1/10W |        |
|        | R649                | 1-216-085-00             | METAL GLAZE       | 33K    | 5%  | 1/10W |        |
|        | R650                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R651                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R653                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | R654                | 1-216-089-00             | METAL GLAZE       | 47K    | 5%  | 1/10W |        |
|        | R655                | 1-216-035-00             | METAL GLAZE       | 270    | 5%  | 1/10W |        |
|        | R657                | 1-216-049-00             | METAL GLAZE       | 1K     | 5%  | 1/10W |        |
|        | <VARIABLE RESISTOR> |                          |                   |        |     |       |        |
|        | RV301               | 1-241-119-11             | RES, ADJ, CARBON  | 1K     |     |       |        |
|        | RV302               | 1-241-632-11             | RES, ADJ, CARBON  | 47K    |     |       |        |
|        | <TRANSFORMER>       |                          |                   |        |     |       |        |
|        | T301                | 1-404-584-11             | COIL              |        |     |       |        |
|        | <CRYSTAL>           |                          |                   |        |     |       |        |
|        | X303                | 1-527-789-00             | VINRATOR, CRYSTAL |        |     |       |        |
|        | X304                | 1-567-413-11             | VIBRATOR, CRYSTAL |        |     |       |        |
|        | <MODULE>            |                          |                   |        |     |       |        |
|        | YCM301              | 1-239-356-11             | MODULE, TRAP      |        |     |       |        |
|        | *****               |                          |                   |        |     |       |        |
|        | *A-1135-719-A       | B1 BOARD, COMPLETE       |                   |        |     |       |        |
|        | *****               |                          |                   |        |     |       |        |
|        | 4-382-854-11        | SCREW (M3X10), P, SW (+) |                   |        |     |       |        |
|        | <CAPACITOR>         |                          |                   |        |     |       |        |
|        | C2501               | 1-126-101-11             | ELECT             | 100MF  | 20% | 16V   |        |
|        | C2502               | 1-124-122-11             | ELECT             | 100MF  | 20% | 50V   |        |
|        | C2503               | 1-124-907-11             | ELECT             | 10MF   | 20% | 50V   |        |
|        | C2504               | 1-164-232-11             | CERAMIC CHIP      | 0.01MF | 10% | 50V   |        |

| REF.NO.  | PART NO.     | DESCRIPTION           | REMARK  | REF.NO. | PART NO.     | DESCRIPTION               | REMARK |
|----------|--------------|-----------------------|---------|---------|--------------|---------------------------|--------|
| C2505    | 1-124-477-11 | ELECT 47MF            | 20% 16V | FL2501  | 1-236-164-11 | ENCAPSULATED COMPONENT    |        |
| C2506    | 1-124-907-11 | ELECT 10MF            | 20% 50V | FL2502  | 1-236-164-11 | ENCAPSULATED COMPONENT    |        |
| C2507    | 1-163-093-00 | CERAMIC CHIP 10PF     | 5% 50V  | FL2503  | 1-236-620-11 | FILTER, LOW PASS          |        |
| C2508    | 1-163-105-00 | CERAMIC CHIP 33PF     | 5% 50V  | FL2504  | 1-236-620-11 | FILTER, LOW PASS          |        |
| C2511    | 1-126-101-11 | ELECT 100MF           | 20% 16V | FL2505  | 1-236-620-11 | FILTER, LOW PASS          |        |
| C2512    | 1-124-925-11 | ELECT 2.2MF           | 20% 50V |         |              | <IC>                      |        |
| C2513    | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% 50V | IC2501  | 8-752-062-80 | IC CXA1686M               |        |
| C2514    | 1-124-902-00 | ELECT 0.47MF          | 20% 50V | IC2502  | 8-741-692-01 | IC SBX1692-01             |        |
| C2515    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | IC2503  | 8-759-802-18 | IC L780S05                |        |
| C2516    | 1-163-117-00 | CERAMIC CHIP 100PF    | 5% 50V  |         |              | <COIL>                    |        |
| C2517    | 1-163-809-11 | CERAMIC CHIP 0.047MF  | 10% 25V | L2501   | 1-410-484-11 | INDUCTOR 150UH            |        |
| C2518    | 1-163-809-11 | CERAMIC CHIP 0.047MF  | 10% 25V | L2502   | 1-410-466-41 | INDUCTOR 4.7UH            |        |
| C2519    | 1-126-101-11 | ELECT 100MF           | 20% 16V | L2503   | 1-410-466-41 | INDUCTOR 4.7UH            |        |
| C2520    | 1-126-101-11 | ELECT 100MF           | 20% 16V | L2505   | 1-410-466-41 | INDUCTOR 4.7UH            |        |
| C2521    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V |         |              | <TRANSISTOR>              |        |
| C2522    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | Q2501   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2523    | 1-163-809-11 | CERAMIC CHIP 0.047MF  | 10% 25V | Q2502   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2524    | 1-124-443-00 | ELECT 100MF           | 20% 10V | Q2503   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2525    | 1-163-009-11 | CERAMIC CHIP 0.001MF  | 10% 50V | Q2504   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2526    | 1-126-101-11 | ELECT 100MF           | 20% 16V | Q2505   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2527    | 1-124-907-11 | ELECT 10MF            | 20% 50V | Q2506   | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |        |
| C2528    | 1-163-009-11 | CERAMIC CHIP 0.001MF  | 10% 50V | Q2507   | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |        |
| C2529    | 1-124-472-11 | ELECT 470MF           | 20% 10V | Q2510   | 8-729-901-00 | TRANSISTOR DTC124EK       |        |
| C2530    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | Q2511   | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |        |
| C2531    | 1-163-038-00 | CERAMIC CHIP 0.1MF    | 25V     | Q2512   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2532    | 1-124-907-11 | ELECT 10MF            | 20% 50V | Q2513   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2533    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | Q2514   | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |        |
| C2534    | 1-124-907-11 | ELECT 10MF            | 20% 50V | Q2515   | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |        |
| C2535    | 1-124-907-11 | ELECT 10MF            | 20% 50V | Q2516   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2536    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | Q2517   | 8-729-901-01 | TRANSISTOR DTC144EK       |        |
| C2537    | 1-124-443-00 | ELECT 100MF           | 20% 10V | Q2518   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2538    | 1-124-907-11 | ELECT 10MF            | 20% 50V | Q2519   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2539    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | Q2520   | 8-729-230-49 | TRANSISTOR 2SC2712-YG     |        |
| C2540    | 1-163-809-11 | CERAMIC CHIP 0.047MF  | 10% 25V |         |              | <RESISTOR>                |        |
| C2541    | 1-163-137-00 | CERAMIC CHIP 680PF    | 5% 50V  | R2501   | 1-216-037-00 | METAL GLAZE 330 5% 1/10W  |        |
| C2542    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | R2502   | 1-216-035-00 | METAL GLAZE 270 5% 1/10W  |        |
| C2543    | 1-164-232-11 | CERAMIC CHIP 0.01MF   | 10% 50V | R2503   | 1-216-053-00 | METAL GLAZE 1.5K 5% 1/10W |        |
| C2544    | 1-164-004-11 | CERAMIC CHIP 0.1MF    | 10% 25V | R2504   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |
| C2545    | 1-124-472-11 | ELECT 470MF           | 20% 10V | R2505   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |
| C2546    | 1-163-133-00 | CERAMIC CHIP 470PF    | 5% 50V  | R2506   | 1-216-037-00 | METAL GLAZE 330 5% 1/10W  |        |
| C2547    | 1-126-101-11 | ELECT 100MF           | 20% 16V | R2507   | 1-216-089-00 | METAL GLAZE 47K 5% 1/10W  |        |
| C2548    | 1-124-472-11 | ELECT 470MF           | 20% 10V | R2508   | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W  |        |
| C2549    | 1-101-880-00 | CERAMIC 47PF          | 5% 50V  | R2509   | 1-216-055-00 | METAL GLAZE 1.8K 5% 1/10W |        |
| C2550    | 1-136-497--B | FILM 0.1MF            | 5% 50V  | R2510   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |
| C2551    | 1-126-101-11 | ELECT 100MF           | 20% 16V | R2511   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |
| C2552    | 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% 50V | R2512   | 1-216-089-00 | METAL GLAZE 47K 5% 1/10W  |        |
|          |              | <CONNECTOR>           |         | R2513   | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W  |        |
| CN2501*1 | 1-564-516-11 | PLUG, CONNECTOR 13P   |         | R2514   | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W  |        |
|          |              | <TRIMMER>             |         | R2515   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |
| CV2501   | 1-141-245-00 | TRIMMER, CERAMIC      |         | R2516   | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W |        |
| CV2502   | 1-141-245-00 | TRIMMER, CERAMIC      |         | R2517   | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W  |        |
|          |              | <DIODE>               |         | R2518   | 1-216-085-00 | METAL GLAZE 33K 5% 1/10W  |        |
| D2501    | 8-719-800-76 | DIODE 1SS226          |         | R2519   | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W  |        |
| D2503    | 8-719-800-76 | DIODE 1SS226          |         | R2520   | 1-216-069-00 | METAL GLAZE 6.8K 5% 1/10W |        |
|          |              | <FILTER>              |         | R2521   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |
|          |              |                       |         | R2522   | 1-216-039-00 | METAL GLAZE 390 5% 1/10W  |        |
|          |              |                       |         | R2523   | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |        |

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

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| REF. NO.                                  | PART NO.              | DESCRIPTION         | REMARK           | REF. NO.                                       | PART NO.              | DESCRIPTION                   | REMARK             |
|-------------------------------------------|-----------------------|---------------------|------------------|------------------------------------------------|-----------------------|-------------------------------|--------------------|
| R2524                                     | 1-216-077-00          | METAL GLAZE         | 15K 5% 1/10W     | C610                                           | 1-124-514-11          | ELECT                         | 100MF 20% 50V      |
| R2525                                     | 1-216-071-00          | METAL GLAZE         | 8.2K 5% 1/10W    | C611                                           | 1-137-571-91          | FILM                          | 0.1MF 5% 50V       |
| R2526                                     | 1-216-043-00          | METAL GLAZE         | 560 5% 1/10W     | C612                                           | 1-104-350-11          | ELECT                         | 1000MF 20% 250V    |
| R2527                                     | 1-216-067-00          | METAL GLAZE         | 5.6K 5% 1/10W    | C613                                           | 1-104-350-11          | ELECT                         | 1000MF 20% 250V    |
| R2530                                     | 1-216-295-00          | METAL GLAZE         | 0 5% 1/10W       | C614                                           | 1-164-644-11          | CERAMIC                       | 330PF 10% 500V     |
| R2531                                     | 1-216-051-00          | METAL GLAZE         | 1.2K 5% 1/10W    | C615                                           | 1-164-644-11          | CERAMIC                       | 330PF 10% 500V     |
| R2533                                     | 1-216-073-00          | METAL GLAZE         | 10K 5% 1/10W     | C616                                           | 1-136-175-00          | FILM                          | 0.068MF 5% 50V     |
| R2534                                     | 1-216-041-00          | METAL GLAZE         | 470 5% 1/10W     | C617                                           | 1-136-173-00          | FILM                          | 0.47MF 5% 50V      |
| R2535                                     | 1-216-025-00          | METAL GLAZE         | 100 5% 1/10W     | C618                                           | 1-136-175-00          | FILM                          | 0.068MF 5% 50V     |
| R2536                                     | 1-216-039-00          | METAL GLAZE         | 390 5% 1/10W     | C619                                           | 1-136-173-00          | FILM                          | 0.47MF 5% 50V      |
| R2537                                     | 1-216-025-00          | METAL GLAZE         | 100 5% 1/10W     | C620                                           | 1-164-644-11          | CERAMIC                       | 330PF 10% 500V     |
| R2538                                     | 1-216-039-00          | METAL GLAZE         | 390 5% 1/10W     | C621                                           | 1-162-318-11          | CERAMIC                       | 0.001MF 10% 500V   |
| R2539                                     | 1-216-079-00          | METAL GLAZE         | 18K 5% 1/10W     | C622                                           | 1-137-234-11          | FILM                          | 0.0068MF 5% 1.25KV |
| R2540                                     | 1-216-079-00          | METAL GLAZE         | 18K 5% 1/10W     | C623                                           | 1-137-233-11          | FILM                          | 0.0056MF 5% 1.25KV |
| R2541                                     | 1-216-081-00          | METAL GLAZE         | 22K 5% 1/10W     | C624                                           | 1-137-233-11          | FILM                          | 0.0056MF 5% 1.25KV |
| R2542                                     | 1-216-075-00          | METAL GLAZE         | 12K 5% 1/10W     | C625                                           | 1-124-907-11          | ELECT                         | 10MF 20% 50V       |
| R2543                                     | 1-216-077-00          | METAL GLAZE         | 15K 5% 1/10W     | C626                                           | 1-126-803-11          | ELECT                         | 47MF 20% 50V       |
| R2544                                     | 1-216-077-00          | METAL GLAZE         | 15K 5% 1/10W     | C627                                           | 1-126-183-11          | ELECT                         | 1000MF 20% 16V     |
| R2545                                     | 1-216-043-00          | METAL GLAZE         | 560 5% 1/10W     | C628                                           | 1-124-602-00          | ELECT                         | 2200MF 20% 25V     |
| R2546                                     | 1-216-043-00          | METAL GLAZE         | 560 5% 1/10W     | C629                                           | 1-126-101-11          | ELECT                         | 100MF 20% 16V      |
| R2547                                     | 1-216-057-00          | METAL GLAZE         | 2.2K 5% 1/10W    | C630                                           | 1-136-173-00          | FILM                          | 0.47MF 5% 50V      |
| R2548                                     | 1-216-057-00          | METAL GLAZE         | 2.2K 5% 1/10W    | C631                                           | 1-124-443-00          | ELECT                         | 100MF 20% 10V      |
| R2549                                     | 1-216-025-00          | METAL GLAZE         | 100 5% 1/10W     | C632                                           | 1-124-442-00          | ELECT                         | 330MF 20% 6.3V     |
| R2550                                     | 1-216-025-00          | METAL GLAZE         | 100 5% 1/10W     | C633                                           | 1-126-540-91          | ELECT                         | 220MF 20% 6.3V     |
| R2551                                     | 1-216-033-00          | METAL GLAZE         | 220 5% 1/10W     | C634                                           | 1-124-607-11          | ELECT                         | 2200MF 20% 50V     |
| R2552                                     | 1-216-049-00          | METAL GLAZE         | 1K 5% 1/10W      | C635                                           | 1-124-480-11          | ELECT                         | 470MF 20% 25V      |
| R2553                                     | 1-216-067-00          | METAL GLAZE         | 5.6K 5% 1/10W    | C636                                           | 1-126-803-11          | ELECT                         | 47MF 20% 50V       |
| R2554                                     | 1-216-089-00          | METAL GLAZE         | 47K 5% 1/10W     | C637                                           | 1-126-103-11          | ELECT                         | 470MF 20% 16V      |
| R2555                                     | 1-216-053-00          | METAL GLAZE         | 1.5K 5% 1/10W    | C639                                           | 1-162-117-00          | CERAMIC                       | 100PF 10% 500V     |
| R2556                                     | 1-216-059-00          | METAL GLAZE         | 2.7K 5% 1/10W    | C640                                           | 1-126-356-11          | ELECT                         | 220MF 20% 160V     |
| R2557                                     | 1-216-057-00          | METAL GLAZE         | 2.2K 5% 1/10W    | C641                                           | 1-124-119-00          | ELECT                         | 330MF 20% 16V      |
| R2558                                     | 1-216-037-00          | METAL GLAZE         | 330 5% 1/10W     | C642                                           | 1-102-228-00          | CERAMIC                       | 470PF 10% 500V     |
| R2559                                     | 1-216-075-00          | METAL GLAZE         | 12K 5% 1/10W     | C643                                           | 1-130-479-00          | MYLAR                         | 0.0047MF 5% 50V    |
| R2560                                     | 1-216-049-00          | METAL GLAZE         | 1K 5% 1/10W      | C644                                           | 1-130-491-00          | MYLAR                         | 0.047MF 5% 50V     |
| R2561                                     | 1-216-081-00          | METAL GLAZE         | 22K 5% 1/10W     | C645                                           | 1-124-443-00          | ELECT                         | 100MF 20% 10V      |
| R2562                                     | 1-216-049-00          | METAL GLAZE         | 1K 5% 1/10W      | C646                                           | 1-124-443-00          | ELECT                         | 100MF 20% 10V      |
| R2564                                     | 1-216-073-00          | METAL GLAZE         | 10K 5% 1/10W     | C647                                           | 1-126-101-11          | ELECT                         | 100MF 20% 16V      |
| R2565                                     | 1-216-295-00          | METAL GLAZE         | 0 5% 1/10W       | C648                                           | 1-126-101-11          | ELECT                         | 100MF 20% 16V      |
| <CRYSTAL>                                 |                       |                     |                  | C649                                           | $\Delta$ 1-164-497-51 | CERAMIC                       | 470PF 20% 400V     |
| X2501                                     | 1-527-722-00          | OSCILLATOR, CRYSTAL |                  | *4-374-846-11 COVER, CAPACITOR, CAP TYPE; C649 |                       |                               |                    |
| X2502                                     | 1-579-057-11          | VIBRATOR, CRYSTAL   |                  | C650                                           | 1-124-480-11          | ELECT                         | 470MF 20% 25V      |
| X2503                                     | 1-577-611-11          | OSCILLATOR, CERAMIC |                  | C651                                           | 1-130-471-00          | MYLAR                         | 0.001MF 5% 50V     |
| *****                                     |                       |                     |                  | C652                                           | 1-136-497-81          | FILM                          | 0.1MF 5% 50V       |
| *****                                     |                       |                     |                  | C654                                           | 1-137-354-11          | FILM                          | 0.01MF 5% 100V     |
| *****                                     |                       |                     |                  | <CONNECTOR>                                    |                       |                               |                    |
| *A-1195-056-A F BOARD, COMPLETE           |                       |                     |                  | CN601                                          | *1-564-510-11         | PLUG, CONNECTOR 7P            |                    |
| *****                                     |                       |                     |                  | CN602                                          | *1-564-512-11         | PLUG, CONNECTOR 9P            |                    |
| 1-533-223-11 CLIP, FUSE                   |                       |                     |                  | CN603                                          | *1-573-986-11         | PIN, CONNECTOR (PC BOARD) 5P  |                    |
| *4-341-751-01 EYELET (EY100-EY175)        |                       |                     |                  | CN604                                          | *1-580-843-11         | PIN, CONNECTOR (POWER)        |                    |
| *4-341-752-01 EYELET (EY1-EY8, EY10-EY40) |                       |                     |                  | CN605                                          | *1-573-963-11         | PIN, CONNECTOR (PC BOARD) 3P  |                    |
| 4-363-414-00 SPACER, MICA                 |                       |                     |                  | CN606                                          | *1-573-963-11         | PIN, CONNECTOR (PC BOARD) 3P  |                    |
| 4-382-854-11 SCREW (M3X10), P, SW (+)     |                       |                     |                  | CN607                                          | *1-508-786-00         | PIN, CONNECTOR (5MM PITCH) 2P |                    |
| <CAPACITOR>                               |                       |                     |                  | CN608                                          | *1-508-784-00         | PIN, CONNECTOR (5MM PITCH) 1P |                    |
| C601                                      | $\Delta$ 1-136-548-13 | FILM                | 0.1MF 20% 250V   | <DIODE>                                        |                       |                               |                    |
| C603                                      | $\Delta$ 1-161-830-51 | CERAMIC             | 0.0047MF 500V    | D601                                           | 8-719-510-53          | DIODE D4SB60L                 |                    |
| C604                                      | $\Delta$ 1-161-830-51 | CERAMIC             | 0.0047MF 500V    | D602                                           | $\Delta$ 8-719-304-63 | DIODE RM11C                   |                    |
| C605                                      | $\Delta$ 1-161-830-51 | CERAMIC             | 0.0047MF 500V    | D603                                           | 8-719-510-48          | DIODE D1N20R                  |                    |
| C606                                      | $\Delta$ 1-161-830-51 | CERAMIC             | 0.0047MF 500V    | D604                                           | 8-719-510-48          | DIODE D1N20R                  |                    |
| C607                                      | 1-137-571-91          | FILM                | 0.1MF 5% 50V     | D605                                           | 8-719-510-48          | DIODE D1N20R                  |                    |
| C608                                      | 1-136-197-61          | FILM                | 0.047MF 10% 400V |                                                |                       |                               |                    |
| C609                                      | 1-126-406-11          | ELECT               | 2.2MF 20% 400V   |                                                |                       |                               |                    |



**F**

| REF.NO. | PART NO.     | DESCRIPTION            | REMARK | REF.NO. | PART NO.     | DESCRIPTION            | REMARK         |
|---------|--------------|------------------------|--------|---------|--------------|------------------------|----------------|
| D606    | 8-719-510-48 | DIODE D1N20R           |        | Q604    | 8-729-209-15 | TRANSISTOR 2SD2012     |                |
| D607    | 8-719-911-19 | DIODE 1SS119           |        | Q605    | 8-729-209-15 | TRANSISTOR 2SD2012     |                |
| D608    | 8-719-510-26 | DIODE D1NL20           |        |         |              |                        |                |
| D609    | 8-719-510-12 | DIODE D10SC4M          |        | Q606    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |                |
| D610    | 8-719-510-12 | DIODE D10SC4M          |        | Q607    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |                |
|         |              |                        |        | Q608    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |                |
| D611    | 8-719-510-04 | DIODE S3LA20F          |        | Q609    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |                |
| D612    | 8-719-510-04 | DIODE S3LA20F          |        | Q610    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |                |
| D613    | 8-719-911-19 | DIODE 1SS119           |        |         |              |                        |                |
| D614    | 8-719-510-04 | DIODE S3LA20F          |        | Q611    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |                |
| D615    | 8-719-911-19 | DIODE 1SS119           |        | Q612    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |                |
|         |              |                        |        | Q613    | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |                |
| D616    | 8-719-510-26 | DIODE D1NL20           |        | Q614    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |                |
| D617    | 8-719-510-26 | DIODE D1NL20           |        | Q615    | 8-729-900-89 | TRANSISTOR DTC144ES    |                |
| D618    | 8-719-510-04 | DIODE S3LA20F          |        |         |              |                        |                |
| D619    | 8-719-510-04 | DIODE S3LA20F          |        |         |              |                        |                |
| D620    | 8-719-911-19 | DIODE 1SS119           |        |         |              |                        |                |
|         |              |                        |        |         |              |                        |                |
| D621    | 8-719-109-54 | DIODE RD2.2ES-B1       |        | R601    | 1-205-922-11 | WIREWOUND              | 5.6 5% 7W      |
| D622    | 8-719-110-03 | DIODE RD7.5ES-B2       |        | R603    | 1-260-300-71 | CARBON                 | 4.7 5% 1/2W    |
| D623    | 8-719-110-03 | DIODE RD7.5ES-B2       |        | R604    | 1-214-925-00 | CARBON                 | 330K 5% 1/2W   |
| D624    | 8-719-110-17 | DIODE RD10ES-B2        |        | R605    | 1-214-925-00 | CARBON                 | 330K 5% 1/2W   |
| D625    | 8-719-110-08 | DIODE RD8.2ES-B2       |        | R606    | 1-202-933-61 | FUSIBLE                | 0.1 10% 1/2W F |
|         |              |                        |        |         |              |                        |                |
| D626    | 8-719-108-18 | THYRISTOR 5P6M         |        | R607    | 1-215-857-11 | METAL OXIDE            | 10 5% 1W F     |
| D627    | 8-719-911-19 | DIODE 1SS119           |        | R608    | 1-215-857-11 | METAL OXIDE            | 10 5% 1W F     |
| D628    | 8-719-911-19 | DIODE 1SS119           |        | R609    | 1-216-468-11 | METAL OXIDE            | 82K 5% 2W F    |
| D629    | 8-719-110-08 | DIODE RD8.2ES-B2       |        | R610    | 1-216-468-11 | METAL OXIDE            | 82K 5% 2W F    |
| D630    | 8-719-911-19 | DIODE 1SS119           |        | R611    | 1-216-369-00 | METAL OXIDE            | 1 5% 2W F      |
|         |              |                        |        |         |              |                        |                |
| D631    | 8-719-110-18 | DIODE RD10ES-B3        |        | R612    | 1-216-369-00 | METAL OXIDE            | 1 5% 2W F      |
| D632    | 8-719-510-04 | DIODE S3LA20F          |        | R613    | 1-215-857-11 | METAL OXIDE            | 10 5% 1W F     |
| D633    | 8-719-510-26 | DIODE D1NL20           |        | R614    | 1-249-424-11 | CARBON                 | 3.9K 5% 1/4W   |
| D634    | 8-719-911-19 | DIODE 1SS119           |        | R615    | 1-249-416-11 | CARBON                 | 820 5% 1/4W F  |
| D660    | 8-719-510-26 | DIODE D1NL20           |        | R616    | 1-249-416-11 | CARBON                 | 820 5% 1/4W F  |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R617    | 1-249-429-11 | CARBON                 | 10K 5% 1/4W    |
|         |              |                        |        | R620    | 1-249-381-11 | CARBON                 | 1 5% 1/4W F    |
|         |              |                        |        | R621    | 1-249-381-11 | CARBON                 | 1 5% 1/4W F    |
|         |              |                        |        | R622    | 1-249-381-11 | CARBON                 | 1 5% 1/4W F    |
|         |              |                        |        | R623    | 1-249-397-11 | CARBON                 | 22 5% 1/4W     |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R624    | 1-249-424-11 | CARBON                 | 3.9K 5% 1/4W   |
|         |              |                        |        | R625    | 1-249-423-11 | CARBON                 | 3.3K 5% 1/4W   |
|         |              |                        |        | R628    | 1-215-857-11 | METAL OXIDE            | 10 5% 1W F     |
|         |              |                        |        | R629    | 1-216-364-11 | METAL OXIDE            | 0.39 5% 2W F   |
|         |              |                        |        | R630    | 1-215-890-11 | METAL OXIDE            | 470 5% 2W F    |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R631    | 1-249-405-11 | CARBON                 | 100 5% 1/4W F  |
|         |              |                        |        | R632    | 1-215-417-00 | METAL                  | 680 1% 1/4W    |
|         |              |                        |        | R633    | 1-249-405-11 | CARBON                 | 100 5% 1/4W    |
|         |              |                        |        | R635    | 1-215-441-00 | METAL                  | 6.8K 1% 1/4W   |
|         |              |                        |        | R636    | 1-260-300-71 | CARBON                 | 4.7 5% 1/2W    |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R637    | 1-249-423-11 | CARBON                 | 3.3K 5% 1/4W   |
|         |              |                        |        | R638    | 1-249-415-11 | CARBON                 | 680 5% 1/4W    |
|         |              |                        |        | R639    | 1-215-437-00 | METAL                  | 4.7K 1% 1/4W   |
|         |              |                        |        | R640    | 1-249-390-11 | CARBON                 | 5.6 5% 1/4W    |
|         |              |                        |        | R641    | 1-249-437-11 | CARBON                 | 47K 5% 1/4W    |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R642    | 1-249-430-11 | CARBON                 | 12K 5% 1/4W    |
|         |              |                        |        | R643    | 1-215-449-00 | METAL                  | 15K 1% 1/4W    |
|         |              |                        |        | R644    | 1-260-324-71 | CARBON                 | 470 5% 1/2W    |
|         |              |                        |        | R645    | 1-249-405-11 | CARBON                 | 100 5% 1/4W    |
|         |              |                        |        | R646    | 1-249-437-11 | CARBON                 | 47K 5% 1/4W    |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R647    | 1-249-430-11 | CARBON                 | 12K 5% 1/4W    |
|         |              |                        |        | R648    | 1-249-439-11 | CARBON                 | 68K 5% 1/4W    |
|         |              |                        |        | R649    | 1-249-417-11 | CARBON                 | 1K 5% 1/4W     |
|         |              |                        |        | R650    | 1-249-421-11 | CARBON                 | 2.2K 5% 1/4W   |
|         |              |                        |        | R651    | 1-249-421-11 | CARBON                 | 2.2K 5% 1/4W   |
|         |              |                        |        |         |              |                        |                |
|         |              |                        |        | R652    | 1-249-421-11 | CARBON                 | 2.2K 5% 1/4W   |
|         |              |                        |        | R653    | 1-249-437-11 | CARBON                 | 47K 5% 1/4W    |
|         |              |                        |        | R654    | 1-249-429-11 | CARBON                 | 10K 5% 1/4W    |
|         |              |                        |        | R655    | 1-249-425-11 | CARBON                 | 4.7K 5% 1/4W   |
|         |              |                        |        |         |              |                        |                |
| Q601    | 8-729-015-59 | TRANSISTOR 2SC4834N    |        |         |              |                        |                |
| Q602    | 8-729-015-59 | TRANSISTOR 2SC4834N    |        |         |              |                        |                |
| Q603    | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        |         |              |                        |                |

## A2

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| REF.NO.                          | PART NO.     | DESCRIPTION               | REMARK  | REF.NO. | PART NO.     | DESCRIPTION            | REMARK  |
|----------------------------------|--------------|---------------------------|---------|---------|--------------|------------------------|---------|
| <TRANSISTOR>                     |              |                           |         | C113    | 1-163-113-00 | CERAMIC CHIP 68PF      | 5% 50V  |
| Q4401                            | 8-729-920-74 | TRANSISTOR 2SC2412K-QR    |         | C114    | 1-163-121-00 | CERAMIC CHIP 150PF     | 5% 50V  |
| Q4402                            | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |         | C115    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| Q4403                            | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |         | C116    | 1-163-038-00 | CERAMIC CHIP 0.1MF     | 25V     |
| Q4404                            | 8-729-230-46 | TRANSISTOR 2SA1162-YG     |         | C117    | 1-163-121-00 | CERAMIC CHIP 150PF     | 5% 50V  |
| Q4405                            | 8-729-901-01 | TRANSISTOR DTC144EK       |         | C118    | 1-164-232-11 | CERAMIC CHIP 0.01MF    | 10% 50V |
| Q4406                            | 8-729-920-74 | TRANSISTOR 2SC2412K-QR    |         | C119    | 1-136-167-00 | FILM 0.15MF            | 5% 50V  |
| Q4407                            | 8-729-920-74 | TRANSISTOR 2SC2412K-QR    |         | C120    | 1-163-119-00 | CERAMIC CHIP 120PF     | 5% 50V  |
| <RESISTOR>                       |              |                           |         | C121    | 1-163-009-11 | CERAMIC CHIP 0.001MF   | 10% 50V |
| JR4401                           | 1-216-296-00 | METAL GLAZE 0 5% 1/8W     |         | C122    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| JR4402                           | 1-216-295-00 | METAL GLAZE 0 5% 1/10W    |         | C123    | 1-163-009-11 | CERAMIC CHIP 0.001MF   | 10% 50V |
| JR4403                           | 1-216-296-00 | METAL GLAZE 0 5% 1/8W     |         | C124    | 1-163-113-00 | CERAMIC CHIP 68PF      | 5% 50V  |
| JR4404                           | 1-216-296-00 | METAL GLAZE 0 5% 1/8W     |         | C125    | 1-163-038-00 | CERAMIC CHIP 0.1MF     | 25V     |
| JR4405                           | 1-216-295-00 | METAL GLAZE 0 5% 1/10W    |         | C126    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| JR4406                           | 1-216-295-00 | METAL GLAZE 0 5% 1/10W    |         | C127    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| JR4407                           | 1-216-295-00 | METAL GLAZE 0 5% 1/10W    |         | C128    | 1-124-907-11 | ELECT 10MF             | 20% 50V |
| JR4408                           | 1-216-295-00 | METAL GLAZE 0 5% 1/10W    |         | C129    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| JR4409                           | 1-216-296-00 | METAL GLAZE 0 5% 1/8W     |         | C130    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| R4401                            | 1-216-073-00 | METAL GLAZE 10K 5% 1/10W  |         | C131    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| R4402                            | 1-216-067-00 | METAL GLAZE 5.6K 5% 1/10W |         | C132    | 1-163-038-00 | CERAMIC CHIP 0.1MF     | 25V     |
| R4403                            | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W |         | C133    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| R4404                            | 1-216-079-00 | METAL GLAZE 18K 5% 1/10W  |         | C134    | 1-163-038-00 | CERAMIC CHIP 0.1MF     | 25V     |
| R4405                            | 1-216-093-00 | METAL GLAZE 68K 5% 1/10W  |         | C135    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| R4406                            | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |         | C136    | 1-163-989-11 | CERAMIC CHIP 0.033MF   | 10% 25V |
| R4407                            | 1-216-081-00 | METAL GLAZE 22K 5% 1/10W  |         | C137    | 1-164-004-11 | CERAMIC CHIP 0.1MF     | 10% 25V |
| R4408                            | 1-216-041-00 | METAL GLAZE 470 5% 1/10W  |         | C138    | 1-164-232-11 | CERAMIC CHIP 0.01MF    | 10% 50V |
| R4409                            | 1-216-043-00 | METAL GLAZE 560 5% 1/10W  |         | C139    | 1-163-009-11 | CERAMIC CHIP 0.001MF   | 10% 50V |
| R4410                            | 1-216-045-00 | METAL GLAZE 680 5% 1/10W  |         | C140    | 1-163-009-11 | CERAMIC CHIP 0.001MF   | 10% 50V |
| R4411                            | 1-216-089-00 | METAL GLAZE 47K 5% 1/10W  |         | C141    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| R4412                            | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W |         | C142    | 1-163-989-11 | CERAMIC CHIP 0.033MF   | 10% 25V |
| R4413                            | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |         | C143    | 1-164-004-11 | CERAMIC CHIP 0.1MF     | 10% 25V |
| R4414                            | 1-216-049-00 | METAL GLAZE 1K 5% 1/10W   |         | C144    | 1-164-232-11 | CERAMIC CHIP 0.01MF    | 10% 50V |
| R4415                            | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W |         | C145    | 1-163-009-11 | CERAMIC CHIP 0.001MF   | 10% 50V |
| R4416                            | 1-216-065-00 | METAL GLAZE 4.7K 5% 1/10W |         | C146    | 1-163-009-11 | CERAMIC CHIP 0.001MF   | 10% 50V |
| R4417                            | 1-216-057-00 | METAL GLAZE 2.2K 5% 1/10W |         | C147    | 1-124-907-11 | ELECT 10MF             | 20% 50V |
| R4418                            | 1-216-061-00 | METAL GLAZE 3.3K 5% 1/10W |         | C148    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| <CRYSTAL>                        |              |                           |         | C149    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| X4401                            | 1-577-099-11 | VIBRATOR, CERAMIC         |         | C150    | 1-124-907-11 | ELECT 10MF             | 20% 50V |
| *****                            |              |                           |         | C151    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| *A-1297-031-A A1 BOARD, COMPLETE |              |                           |         | C152    | 1-124-477-11 | ELECT 47MF             | 20% 16V |
| *****                            |              |                           |         | C153    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| <CAPACITOR>                      |              |                           |         | C154    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| C101                             | 1-163-038-00 | CERAMIC CHIP 0.1MF        | 25V     | C155    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| C102                             | 1-163-009-11 | CERAMIC CHIP 0.001MF      | 10% 50V | C156    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| C103                             | 1-124-907-11 | ELECT 10MF                | 20% 50V | C157    | 1-124-477-11 | ELECT 47MF             | 20% 16V |
| C104                             | 1-163-038-00 | CERAMIC CHIP 0.1MF        | 25V     | C158    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| C105                             | 1-163-031-11 | CERAMIC CHIP 0.01MF       | 50V     | C159    | 1-126-101-11 | ELECT 100MF            | 20% 16V |
| C106                             | 1-163-009-11 | CERAMIC CHIP 0.001MF      | 10% 50V | C160    | 1-124-907-11 | ELECT 10MF             | 20% 50V |
| C107                             | 1-124-478-11 | ELECT 100MF               | 20% 25V | C201    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| C108                             | 1-163-031-11 | CERAMIC CHIP 0.01MF       | 50V     | C202    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| C109                             | 1-163-123-00 | CERAMIC CHIP 180PF        | 5% 50V  | C203    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| C110                             | 1-163-123-00 | CERAMIC CHIP 180PF        | 5% 50V  | C204    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| C111                             | 1-163-833-00 | CERAMIC CHIP 0.068MF      | 10% 25V | C205    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
| C112                             | 1-164-232-11 | CERAMIC CHIP 0.01MF       | 10% 50V | C206    | 1-163-031-11 | CERAMIC CHIP 0.01MF    | 50V     |
|                                  |              |                           |         | C207    | 1-216-295-00 | METAL GLAZE 0 5% 1/10W | 50V     |
|                                  |              |                           |         | C208    | 1-124-903-11 | ELECT 1MF              | 20% 50V |
|                                  |              |                           |         | C209    | 1-124-477-11 | ELECT 47MF             | 20% 16V |
|                                  |              |                           |         | C210    | 1-124-477-11 | ELECT 47MF             | 20% 16V |
|                                  |              |                           |         | C211    | 1-136-485-81 | FILM 0.01MF            | 5% 50V  |
|                                  |              |                           |         | C212    | 1-136-485-81 | FILM 0.01MF            | 5% 50V  |
|                                  |              |                           |         | C213    | 1-126-233-11 | ELECT 22MF             | 20% 50V |
|                                  |              |                           |         | C214    | 1-126-233-11 | ELECT 22MF             | 20% 50V |
|                                  |              |                           |         | C215    | 1-136-489-81 | FILM 0.022MF           | 5% 50V  |

A1

| REF. NO.    | PART NO.      | DESCRIPTION                   | REMARK   | REF. NO.     | PART NO.     | DESCRIPTION             | REMARK |
|-------------|---------------|-------------------------------|----------|--------------|--------------|-------------------------|--------|
| C216        | 1-136-497-81  | FILM 0.1MF                    | 5% 50V   | <DIODE>      |              |                         |        |
| C217        | 1-136-169-00  | FILM 0.22MF                   | 5% 50V   | D101         | 8-719-988-70 | DIODE BB405B            |        |
| C218        | 1-136-493-81  | FILM 0.047MF                  | 5% 50V   | D102         | 8-719-988-71 | DIODE BB809             |        |
| C219        | 1-124-034-51  | ELECT 33MF                    | 20% 16V  | D103         | 8-719-400-18 | DIODE MA152WK           |        |
| C220        | 1-124-477-11  | ELECT 47MF                    | 20% 16V  | D104         | 8-719-400-18 | DIODE MA152WK           |        |
| C221        | 1-124-477-11  | ELECT 47MF                    | 20% 16V  | D105         | 8-719-914-44 | DIODE DAP202K           |        |
| C222        | 1-124-477-11  | ELECT 47MF                    | 20% 16V  | D107         | 8-719-400-18 | DIODE MA152WK           |        |
| C223        | 1-124-477-11  | ELECT 47MF                    | 20% 16V  | D108         | 8-719-914-44 | DIODE DAP202K           |        |
| C224        | 1-124-907-11  | ELECT 10MF                    | 20% 50V  | D109         | 8-719-911-19 | DIODE 1SS119            |        |
| C225        | 1-163-121-00  | CERAMIC CHIP 150PF            | 5% 50V   | D110         | 8-719-911-19 | DIODE 1SS119            |        |
| C226        | 1-163-119-00  | CERAMIC CHIP 120PF            | 5% 50V   | D201         | 8-719-400-18 | DIODE MA152WK           |        |
| C227        | 1-136-298-00  | FILM 0.0033MF                 | 5% 100V  | D202         | 8-719-109-84 | DIODE RD5.1ES-B1        |        |
| C228        | 1-106-343-00  | MYLAR 0.001MF                 | 10% 100V | <IC>         |              |                         |        |
| C229        | 1-124-907-11  | ELECT 10MF                    | 20% 50V  | IC101        | 8-759-511-88 | IC TDA8732              |        |
| C230        | 1-124-903-11  | ELECT 1MF                     | 20% 50V  | IC102        | 8-759-511-89 | IC SAA7280              |        |
| C231        | 1-124-903-11  | ELECT 1MF                     | 20% 50V  | IC103        | 8-759-900-02 | IC SN74LS02N            |        |
| C232        | 1-163-119-00  | CERAMIC CHIP 120PF            | 5% 50V   | IC104        | 8-759-900-72 | IC NE5532P              |        |
| C233        | 1-124-907-11  | ELECT 10MF                    | 20% 50V  | IC105        | 8-759-900-72 | IC NE5532P              |        |
| C234        | 1-136-169-00  | FILM 0.22MF                   | 5% 50V   | IC106        | 8-759-140-53 | IC UPD4053BC            |        |
| C235        | 1-130-479-00  | MYLAR 0.0047MF                | 5% 50V   | IC107        | 8-759-504-22 | IC TDA1543              |        |
| C236        | 1-136-485-81  | FILM 0.01MF                   | 5% 50V   | IC201        | 8-759-003-90 | IC TBA129               |        |
| C237        | 1-124-903-11  | ELECT 1MF                     | 20% 50V  | IC202        | 8-759-003-90 | IC TBA129               |        |
| C238        | 1-136-169-00  | FILM 0.22MF                   | 5% 50V   | IC203        | 8-759-030-48 | IC TDA6600-2            |        |
| C239        | 1-124-120-11  | ELECT 220MF                   | 20% 16V  | IC204        | 8-759-513-48 | IC TDA2595/V9           |        |
| C240        | 1-124-477-11  | ELECT 47MF                    | 20% 16V  | IC205        | 8-759-000-49 | IC MC14066BCP           |        |
| C241        | 1-124-477-11  | ELECT 47MF                    | 20% 16V  | IC206        | 8-759-000-48 | IC MC14052BCP           |        |
| C242        | 1-126-096-11  | ELECT 10MF                    | 20% 25V  | IC207        | 8-752-057-18 | IC CXA1315P             |        |
| C243        | 1-126-096-11  | ELECT 10MF                    | 20% 25V  | IC208        | 8-759-142-04 | IC UPC7893HF            |        |
| C244        | 1-126-096-11  | ELECT 10MF                    | 20% 25V  | IC209        | 8-759-231-53 | IC TA7805S              |        |
| C245        | 1-126-096-11  | ELECT 10MF                    | 20% 25V  | <COIL>       |              |                         |        |
| C246        | 1-124-034-51  | ELECT 33MF                    | 20% 16V  | L102         | 1-410-119-11 | INDUCTOR 1MH            |        |
| C247        | 1-124-229-00  | ELECT 33MF                    | 20% 10V  | L103         | 1-410-119-11 | INDUCTOR 1MH            |        |
| C248        | 1-124-034-51  | ELECT 33MF                    | 20% 16V  | L104         | 1-407-499-00 | INDUCTOR 3.9MMH         |        |
| C249        | 1-124-034-51  | ELECT 33MF                    | 20% 16V  | L105         | 1-408-421-00 | INDUCTOR 100UH          |        |
| C250        | 1-126-101-11  | ELECT 100MF                   | 20% 16V  | L106         | 1-408-421-00 | INDUCTOR 100UH          |        |
| C253        | 1-130-495-00  | MYLAR 0.1MF                   | 5% 50V   | L201         | 1-408-410-00 | INDUCTOR 12UH           |        |
| C256        | 1-163-038-00  | CERAMIC CHIP 0.1MF            | 5% 25V   | L202         | 1-408-410-00 | INDUCTOR 12UH           |        |
| C257        | 1-163-009-11  | CERAMIC CHIP 0.001MF          | 10% 50V  | L203         | 1-410-064-11 | INDUCTOR 2.7MMH         |        |
| C260        | 1-163-038-00  | CERAMIC CHIP 0.1MF            | 5% 25V   | L204         | 1-408-421-00 | INDUCTOR 100UH          |        |
| C265        | 1-124-034-51  | ELECT 33MF                    | 20% 16V  | L205         | 1-408-421-00 | INDUCTOR 100UH          |        |
| C267        | 1-124-907-11  | ELECT 10MF                    | 20% 50V  | <TRANSISTOR> |              |                         |        |
| C268        | 1-163-127-00  | CERAMIC CHIP 270PF            | 5% 50V   | Q101         | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 |        |
| C269        | 1-163-038-00  | CERAMIC CHIP 0.1MF            | 5% 25V   | Q102         | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 |        |
| C270        | 1-163-038-00  | CERAMIC CHIP 0.1MF            | 5% 25V   | Q103         | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 |        |
| C271        | 1-163-038-00  | CERAMIC CHIP 0.1MF            | 5% 25V   | Q104         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| <FILTER>    |               |                               |          | Q106         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| BPI01       | 1-236-477-11  | FILTER, BAND PASS             |          | Q107         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| CDA201      | 1-404-751-11  | DISCRIMINATOR, CERAMIC        |          | Q108         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| CDA202      | 1-404-750-11  | DISCRIMINATOR, CERAMIC        |          | Q109         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| CFI02       | 1-404-134-00  | TRAP, CERAMIC (5.5MHZ)        |          | Q110         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| SFT201      | 1-527-840-00  | FILTER, CERAMIC               |          | Q201         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| SFT202      | 1-527-839-00  | FILTER, CERAMIC               |          | Q202         | 8-729-901-01 | TRANSISTOR DTC144EK     |        |
| <CONNECTOR> |               |                               |          | Q203         | 8-729-230-46 | TRANSISTOR 2SA1162-YG   |        |
| CN101       | *1-573-979-11 | CONNECTOR, BOARD TO BOARD 11P |          | Q204         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE  |        |
| CN102       | *1-573-979-11 | CONNECTOR, BOARD TO BOARD 11P |          | Q205         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE  |        |
| <TRIMMER>   |               |                               |          | Q206         | 8-729-920-74 | TRANSISTOR 2SC2412K-QR  |        |
| CV101       | 1-141-260-00  | TRIMMER, CERAMIC              |          |              |              |                         |        |

| REF. NO.   | PART NO.     | DESCRIPTION            | REMARK          | REF. NO. | PART NO.     | DESCRIPTION | REMARK        |
|------------|--------------|------------------------|-----------------|----------|--------------|-------------|---------------|
| Q217       | 8-729-920-74 | TRANSISTOR 2SC2412K-QR |                 |          |              |             |               |
| <RESISTOR> |              |                        |                 |          |              |             |               |
| JR1        | 1-216-295-00 | METAL GLAZE            | 0 5% 1/10W      | R158     | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W  |
| JR2        | 1-216-295-00 | METAL GLAZE            | 0 5% 1/10W      | R159     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
| JR3        | 1-216-295-00 | METAL GLAZE            | 0 5% 1/10W      | R160     | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W  |
| JR4        | 1-216-295-00 | METAL GLAZE            | 0 5% 1/10W      | R161     | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W  |
| JR5        | 1-216-295-00 | METAL GLAZE            | 0 5% 1/10W      | R162     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
| JR6        | 1-216-295-00 | METAL GLAZE            | 0 5% 1/10W      | R163     | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W  |
| R101       | 1-216-039-00 | METAL GLAZE            | 390 5% 1/10W    | R164     | 1-216-234-00 | METAL GLAZE | 33K 5% 1/8W   |
| R102       | 1-216-049-00 | METAL GLAZE            | 1K 5% 1/10W     | R165     | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W  |
| R103       | 1-216-049-00 | METAL GLAZE            | 1K 5% 1/10W     | R166     | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W  |
| R104       | 1-216-041-00 | METAL GLAZE            | 470 5% 1/10W    | R167     | 1-216-085-00 | METAL GLAZE | 33K 5% 1/10W  |
| R105       | 1-216-011-00 | METAL GLAZE            | 27 5% 1/10W     | R168     | 1-216-011-00 | METAL GLAZE | 27 5% 1/10W   |
| R106       | 1-216-638-11 | METAL CHIP             | 300 0.50% 1/10W | R169     | 1-247-903-00 | CARBON      | 1M 5% 1/4W    |
| R107       | 1-216-644-11 | METAL CHIP             | 510 0.50% 1/10W | R200     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R108       | 1-216-063-00 | METAL GLAZE            | 3.9K 5% 1/10W   | R201     | 1-216-045-00 | METAL GLAZE | 680 5% 1/10W  |
| R109       | 1-216-053-00 | METAL GLAZE            | 1.5K 5% 1/10W   | R202     | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  |
| R110       | 1-216-047-00 | METAL GLAZE            | 820 5% 1/10W    | R203     | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  |
| R111       | 1-216-041-00 | METAL GLAZE            | 470 5% 1/10W    | R204     | 1-216-045-00 | METAL GLAZE | 680 5% 1/10W  |
| R112       | 1-216-051-00 | METAL GLAZE            | 1.2K 5% 1/10W   | R205     | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  |
| R113       | 1-216-061-00 | METAL GLAZE            | 3.3K 5% 1/10W   | R206     | 1-216-043-00 | METAL GLAZE | 560 5% 1/10W  |
| R115       | 1-216-061-00 | METAL GLAZE            | 3.3K 5% 1/10W   | R208     | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R117       | 1-216-686-11 | METAL CHIP             | 30K 0.50% 1/10W | R209     | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R118       | 1-216-686-11 | METAL CHIP             | 30K 0.50% 1/10W | R210     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R119       | 1-216-097-00 | METAL GLAZE            | 100K 5% 1/10W   | R211     | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R120       | 1-216-081-00 | METAL GLAZE            | 22K 5% 1/10W    | R212     | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R121       | 1-216-081-00 | METAL GLAZE            | 22K 5% 1/10W    | R213     | 1-216-059-00 | METAL GLAZE | 2.7K 5% 1/10W |
| R122       | 1-216-063-00 | METAL GLAZE            | 3.9K 5% 1/10W   | R214     | 1-216-077-00 | METAL GLAZE | 15K 5% 1/10W  |
| R123       | 1-216-097-00 | METAL GLAZE            | 100K 5% 1/10W   | R215     | 1-216-089-00 | METAL GLAZE | 47K 5% 1/10W  |
| R124       | 1-216-097-00 | METAL GLAZE            | 100K 5% 1/10W   | R216     | 1-216-099-00 | METAL GLAZE | 120K 5% 1/10W |
| R125       | 1-216-270-00 | METAL GLAZE            | 1M 5% 1/8W      | R217     | 1-216-075-00 | METAL GLAZE | 12K 5% 1/10W  |
| R127       | 1-216-119-00 | METAL GLAZE            | 820K 5% 1/10W   | R218     | 1-216-097-00 | METAL GLAZE | 100K 5% 1/10W |
| R128       | 1-216-049-00 | METAL GLAZE            | 1K 5% 1/10W     | R219     | 1-216-063-00 | METAL GLAZE | 3.9K 5% 1/10W |
| R129       | 1-216-065-00 | METAL GLAZE            | 4.7K 5% 1/10W   | R220     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
| R130       | 1-216-065-00 | METAL GLAZE            | 4.7K 5% 1/10W   | R221     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
| R131       | 1-216-097-00 | METAL GLAZE            | 100K 5% 1/10W   | R222     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R132       | 1-216-089-00 | METAL GLAZE            | 47K 5% 1/10W    | R223     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R133       | 1-216-065-00 | METAL GLAZE            | 4.7K 5% 1/10W   | R224     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R134       | 1-216-065-00 | METAL GLAZE            | 4.7K 5% 1/10W   | R225     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R135       | 1-216-065-00 | METAL GLAZE            | 4.7K 5% 1/10W   | R226     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R136       | 1-216-071-00 | METAL GLAZE            | 8.2K 5% 1/10W   | R227     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R137       | 1-216-077-00 | METAL GLAZE            | 15K 5% 1/10W    | R228     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R138       | 1-216-081-00 | METAL GLAZE            | 22K 5% 1/10W    | R229     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R139       | 1-216-089-00 | METAL GLAZE            | 47K 5% 1/10W    | R230     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R140       | 1-216-077-00 | METAL GLAZE            | 15K 5% 1/10W    | R231     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R141       | 1-216-067-00 | METAL GLAZE            | 5.6K 5% 1/10W   | R234     | 1-216-349-00 | METAL OXIDE | 1 5% 1W F     |
| R142       | 1-216-063-00 | METAL GLAZE            | 3.9K 5% 1/10W   | R235     | 1-216-037-00 | METAL GLAZE | 330 5% 1/10W  |
| R143       | 1-216-640-11 | METAL CHIP             | 360 0.50% 1/10W | R236     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R144       | 1-216-049-00 | METAL GLAZE            | 1K 5% 1/10W     | R237     | 1-216-349-00 | METAL OXIDE | 1 5% 1W F     |
| R145       | 1-216-073-00 | METAL GLAZE            | 10K 5% 1/10W    | R238     | 1-216-059-00 | METAL GLAZE | 2.7K 5% 1/10W |
| R146       | 1-216-073-00 | METAL GLAZE            | 10K 5% 1/10W    | R239     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R147       | 1-216-689-11 | METAL GLAZE            | 39K 5% 1/10W    | R240     | 1-216-035-00 | METAL GLAZE | 270 5% 1/10W  |
| R148       | 1-216-689-11 | METAL GLAZE            | 39K 5% 1/10W    | R241     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R149       | 1-216-063-00 | METAL GLAZE            | 3.9K 5% 1/10W   | R242     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R150       | 1-216-640-11 | METAL CHIP             | 360 0.50% 1/10W | R243     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R151       | 1-216-049-00 | METAL GLAZE            | 1K 5% 1/10W     | R244     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R152       | 1-216-073-00 | METAL GLAZE            | 10K 5% 1/10W    | R245     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R153       | 1-216-073-00 | METAL GLAZE            | 10K 5% 1/10W    | R246     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R154       | 1-216-689-11 | METAL GLAZE            | 39K 5% 1/10W    | R247     | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  |
| R155       | 1-216-689-11 | METAL GLAZE            | 39K 5% 1/10W    | R250     | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   |
| R156       | 1-216-089-00 | METAL GLAZE            | 47K 5% 1/10W    | R265     | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W |
| R157       | 1-216-085-00 | METAL GLAZE            | 33K 5% 1/10W    | R273     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
|            |              |                        |                 | R275     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
|            |              |                        |                 | R276     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
|            |              |                        |                 | R277     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |
|            |              |                        |                 | R278     | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  |

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| REF. NO.            | PART NO.                              | DESCRIPTION          | REMARK           | REF. NO. | PART NO.     | DESCRIPTION    | REMARK   |
|---------------------|---------------------------------------|----------------------|------------------|----------|--------------|----------------|----------|
| R279                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1140    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R280                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1141    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R281                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1142    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R282                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1143    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R283                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1144    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R284                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1145    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R287                | 1-216-025-00                          | METAL GLAZE          | 100 5% 1/10W     | C1146    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R288                | 1-216-049-00                          | METAL GLAZE          | 1K 5% 1/10W      | C1148    | 1-102-228-00 | CERAMIC 470PF  | 10% 500V |
| R289                | 1-216-049-00                          | METAL GLAZE          | 1K 5% 1/10W      | C1149    | 1-126-157-11 | ELECT 10MF     | 20% 16V  |
| R290                | 1-216-049-00                          | METAL GLAZE          | 1K 5% 1/10W      | C1153    | 1-124-589-11 | ELECT 47MF     | 20% 16V  |
| R291                | 1-249-429-11                          | CARBON               | 10K 5% 1/4W      | C1155    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
| <VARIABLE RESISTOR> |                                       |                      |                  | C1156    | 1-124-589-11 | ELECT 47MF     | 20% 16V  |
| RV201               | 1-241-630-11                          | RES, ADJ, CARBON 10K |                  | C1157    | 1-102-973-00 | CERAMIC 100PF  | 5% 50V   |
| RV202               | 1-241-632-11                          | RES, ADJ, CARBON 47K |                  | C1158    | 1-126-301-11 | ELECT 1MF      | 20% 50V  |
| <CRYSTAL>           |                                       |                      |                  | C1159    | 1-130-487-00 | MYLAR 0.022MF  | 5% 50V   |
| X101                | 1-579-282-21                          | VIBRATOR, CRYSTAL    |                  | C1160    | 1-130-487-00 | MYLAR 0.022MF  | 5% 50V   |
| X102                | 1-579-281-11                          | VIBRATOR, CRYSTAL    |                  | C1161    | 1-130-471-00 | MYLAR 0.001MF  | 5% 50V   |
| *****               |                                       |                      |                  | C1162    | 1-130-483-00 | MYLAR 0.01MF   | 5% 50V   |
| *A-1297-064-A       | A BOARD, COMPLETE (KV-S29JN1)         |                      |                  | C1201    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
|                     | *****                                 |                      |                  | C1202    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
| *A-1296-972-A       | A BOARD, COMPLETE                     |                      |                  | C1203    | 1-124-910-11 | ELECT 47MF     | 20% 50V  |
|                     | *****                                 |                      |                  | C1204    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
|                     | (KV-S29MN1, S29SN1)                   |                      |                  | C1205    | 1-124-927-11 | ELECT 4.7MF    | 20% 50V  |
| *A-1297-033-A       | A BOARD, COMPLETE (KV-S34JN1)         |                      |                  | C1206    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
|                     | *****                                 |                      |                  | C1207    | 1-124-910-11 | ELECT 47MF     | 20% 50V  |
| *A-1296-961-A       | A BOARD, COMPLETE (KV-S34MN1, S34SN1) |                      |                  | C1208    | 1-124-927-11 | ELECT 4.7MF    | 20% 50V  |
|                     | *****                                 |                      |                  | C1209    | 1-124-927-11 | ELECT 4.7MF    | 20% 50V  |
| *4-341-752-01       | EYELET (EY1-EY10)                     |                      |                  | C1210    | 1-124-903-11 | ELECT 1MF      | 20% 50V  |
| 4-382-854-11        | SCREW (M3X10), P. SW (+)              |                      |                  | C1211    | 1-124-927-11 | ELECT 4.7MF    | 20% 50V  |
| <CAPACITOR>         |                                       |                      |                  | C1212    | 1-130-483-00 | MYLAR 0.01MF   | 5% 50V   |
| C1101               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C1213    | 1-124-927-11 | ELECT 4.7MF    | 20% 50V  |
| C1102               | 1-124-478-11                          | ELECT                | 100MF 20% 25V    | C1214    | 1-124-927-11 | ELECT 4.7MF    | 20% 50V  |
| C1103               | 1-102-121-00                          | CERAMIC              | 0.0022MF 10% 50V | C1215    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
| C1104               | 1-102-121-00                          | CERAMIC              | 0.0022MF 10% 50V | C1216    | 1-136-165-00 | FILM 0.1MF     | 5% 50V   |
| C1105               | 1-102-978-00                          | CERAMIC              | 220PF 5% 50V     | C1217    | 1-126-057-11 | ELECT 2200MF   | 20% 50V  |
| C1106               | 1-130-491-00                          | MYLAR                | 0.047MF 5% 50V   | C1218    | 1-136-169-00 | FILM 0.22MF    | 5% 50V   |
| C1107               | 1-126-301-11                          | ELECT                | 1MF 20% 50V      | C1219    | 1-126-057-11 | ELECT 2200MF   | 20% 50V  |
| C1108               | 1-102-973-00                          | CERAMIC              | 100PF 5% 50V     | C1220    | 1-136-165-00 | FILM 0.1MF     | 5% 50V   |
| C1110               | 1-124-472-11                          | ELECT                | 470MF 20% 10V    | C1221    | 1-124-234-00 | ELECT 22MF     | 20% 16V  |
| C1111               | 1-131-343-00                          | TANTALUM             | 0.22MF 20% 16V   | C1222    | 1-126-057-11 | ELECT 2200MF   | 20% 50V  |
| C1112               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C1223    | 1-124-910-11 | ELECT 47MF     | 20% 50V  |
| C1113               | 1-124-478-11                          | ELECT                | 100MF 20% 25V    | C1224    | 1-124-910-11 | ELECT 47MF     | 20% 50V  |
| C1114               | 1-124-122-11                          | ELECT                | 100MF 20% 50V    | C1225    | 1-124-903-11 | ELECT 1MF      | 20% 50V  |
| C1115               | 1-124-478-11                          | ELECT                | 100MF 20% 25V    | C1226    | 1-124-903-11 | ELECT 1MF      | 20% 50V  |
| C1117               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C1228    | 1-124-910-11 | ELECT 47MF     | 20% 50V  |
| C1119               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C1231    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
| C1120               | 1-124-122-11                          | ELECT                | 100MF 20% 50V    | C1232    | 1-126-101-11 | ELECT 100MF    | 20% 16V  |
| C1122               | 1-102-976-00                          | CERAMIC              | 180PF 5% 50V     | C2602    | 1-124-477-11 | ELECT 47MF     | 20% 16V  |
| C1123               | 1-102-976-00                          | CERAMIC              | 180PF 5% 50V     | C2604    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
| C1124               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C2609    | 1-124-477-11 | ELECT 47MF     | 20% 16V  |
| C1125               | 1-130-483-00                          | MYLAR                | 0.01MF 5% 50V    | C2621    | 1-136-497-81 | FILM 0.1MF     | 5% 50V   |
| C1127               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C2622    | 1-136-497-81 | FILM 0.1MF     | 5% 50V   |
| C1128               | 1-124-903-11                          | ELECT                | 1MF 20% 50V      | C2625    | 1-124-477-11 | ELECT 47MF     | 20% 25V  |
| C1130               | 1-102-978-00                          | CERAMIC              | 220PF 5% 50V     | C2626    | 1-124-477-11 | ELECT 47MF     | 20% 25V  |
| C1131               | 1-130-491-00                          | MYLAR                | 0.047MF 5% 50V   | C2627    | 1-124-911-11 | ELECT 220MF    | 20% 50V  |
| C1132               | 1-126-301-11                          | ELECT                | 1MF 20% 50V      | C2628    | 1-124-120-11 | ELECT 220MF    | 20% 25V  |
| C1133               | 1-102-973-00                          | CERAMIC              | 100PF 5% 50V     | C2629    | 1-124-120-11 | ELECT 220MF    | 20% 25V  |
| C1134               | 1-124-478-11                          | ELECT                | 100MF 20% 25V    | C2630    | 1-136-497-81 | FILM 0.1MF     | 5% 50V   |
| C1135               | 1-124-478-11                          | ELECT                | 100MF 20% 25V    | C2631    | 1-126-101-11 | ELECT 100MF    | 20% 16V  |
| C1136               | 1-124-907-11                          | ELECT                | 10MF 20% 50V     | C2632    | 1-124-907-11 | ELECT 10MF     | 20% 50V  |
| C1139               | 1-102-228-00                          | CERAMIC              | 470PF 10% 500V   | C2633    | 1-102-129-00 | CERAMIC 0.01MF | 10% 50V  |
|                     |                                       |                      |                  | C3502    | 1-124-120-11 | ELECT 220MF    | 20% 16V  |
|                     |                                       |                      |                  | C3510    | 1-102-112-00 | CERAMIC 330PF  | 10% 50V  |

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| REF.NO.             | PART NO.                      | DESCRIPTION       | REMARK           | REF.NO.             | PART NO.                      | DESCRIPTION         | REMARK |
|---------------------|-------------------------------|-------------------|------------------|---------------------|-------------------------------|---------------------|--------|
| C3512               | 1-126-301-11                  | ELECT             | 1MF 20% 50V      | CN1128*1-691-616-11 | CONNECTOR, BOARD TO BOARD 15P |                     |        |
| C3513               | 1-136-169-00                  | FILM              | 0.22MF 5% 50V    | CN1129*1-573-978-11 | CONNECTOR, BOARD TO BOARD 11P |                     |        |
| C3514               | 1-136-169-00                  | FILM              | 0.22MF 5% 50V    | CN1132*1-564-513-11 | PLUG, CONNECTOR 10P           |                     |        |
| C3515               | 1-130-487-00                  | MYLAR             | 0.022MF 5% 50V   | CN1134*1-564-513-11 | PLUG, CONNECTOR 10P           |                     |        |
| C3516               | 1-126-301-11                  | ELECT             | 1MF 20% 50V      |                     |                               |                     |        |
| C3517               | 1-124-478-11                  | ELECT             | 100MF 20% 25V    |                     |                               |                     |        |
| C3518               | 1-124-903-11                  | ELECT             | 1MF 20% 50V      |                     |                               |                     |        |
| C3519               | 1-130-471-00                  | MYLAR             | 0.001MF 5% 50V   |                     |                               |                     |        |
| C3520               | 1-124-589-11                  | ELECT             | 47MF 20% 16V     |                     |                               |                     |        |
| C3521               | 1-102-110-00                  | CERAMIC           | 220PF 10% 50V    |                     |                               |                     |        |
| C3522               | 1-124-907-11                  | ELECT             | 10MF 20% 50V     |                     |                               |                     |        |
| C3523               | 1-124-465-00                  | ELECT             | 0.47MF 20% 50V   |                     |                               |                     |        |
| C3525               | 1-130-483-00                  | MYLAR             | 0.01MF 5% 50V    |                     |                               |                     |        |
| C3526               | 1-102-106-00                  | CERAMIC           | 100PF 10% 50V    |                     |                               |                     |        |
| C3527               | 1-126-301-11                  | ELECT             | 1MF 20% 50V      |                     |                               |                     |        |
| C3528               | 1-102-129-00                  | CERAMIC           | 0.01MF 10% 50V   |                     |                               |                     |        |
| C3530               | 1-124-465-00                  | ELECT             | 0.47MF 20% 50V   |                     |                               |                     |        |
| C3531               | 1-130-479-00                  | MYLAR             | 0.0047MF 5% 50V  |                     |                               |                     |        |
| C3532               | 1-136-169-00                  | FILM              | 0.22MF 5% 50V    |                     |                               |                     |        |
| C3533               | 1-124-767-00                  | ELECT             | 2.2MF 20% 50V    |                     |                               |                     |        |
| C3534               | 1-136-169-00                  | FILM              | 0.22MF 5% 50V    |                     |                               |                     |        |
| C3535               | 1-124-903-11                  | ELECT             | 1MF 20% 50V      |                     |                               |                     |        |
| C3536               | 1-124-767-00                  | ELECT             | 2.2MF 20% 50V    |                     |                               |                     |        |
| C3537               | 1-102-129-00                  | CERAMIC           | 0.01MF 10% 50V   |                     |                               |                     |        |
| C3538               | 1-102-129-00                  | CERAMIC           | 0.01MF 10% 50V   |                     |                               |                     |        |
| C3539               | 1-124-234-00                  | ELECT             | 22MF 20% 16V     |                     |                               |                     |        |
| C3540               | 1-102-973-00                  | CERAMIC           | 100PF 5% 50V     |                     |                               |                     |        |
| C3541               | 1-130-479-00                  | MYLAR             | 0.0047MF 5% 50V  |                     |                               |                     |        |
| C3542               | 1-124-478-11                  | ELECT             | 100MF 20% 25V    |                     |                               |                     |        |
| C3543               | 1-102-228-00                  | CERAMIC           | 470PF 10% 500V   |                     |                               |                     |        |
| C3544               | 1-102-525-11                  | CERAMIC           | 68PF 5% 50V      |                     |                               |                     |        |
| C3545               | 1-124-925-11                  | ELECT             | 2.2MF 20% 50V    |                     |                               |                     |        |
| C3546               | 1-102-973-00                  | CERAMIC           | 100PF 5% 50V     |                     |                               |                     |        |
| C3547               | 1-130-487-00                  | MYLAR             | 0.022MF 5% 50V   |                     |                               |                     |        |
| C3548               | 1-124-903-11                  | ELECT             | 1MF 20% 50V      |                     |                               |                     |        |
| C3549               | 1-124-903-11                  | ELECT             | 1MF 20% 50V      |                     |                               |                     |        |
| C3550               | 1-137-443-11                  | FILM              | 0.056MF 5% 50V   |                     |                               |                     |        |
| C3554               | 1-136-161-00                  | FILM              | 0.047MF 5% 50V   |                     |                               |                     |        |
| C3555               | 1-136-161-00                  | FILM              | 0.047MF 5% 50V   |                     |                               |                     |        |
| C3557               | 1-136-165-00                  | FILM              | 0.1MF 5% 50V     |                     |                               |                     |        |
| C3558               | 1-102-125-00                  | CERAMIC           | 0.0047MF 10% 50V |                     |                               |                     |        |
| C3559               | 1-136-165-00                  | FILM              | 0.1MF 5% 50V     |                     |                               |                     |        |
| <CONNECTOR>         |                               |                   |                  | <DIODE>             |                               |                     |        |
| CN1100*1-573-979-11 | CONNECTOR, BOARD TO BOARD 11P |                   |                  | D1101               | 8-719-016-42                  | DIODE MC932         |        |
| CN1101*1-564-509-11 | PLUG, CONNECTOR 6P            |                   |                  | D1102               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1102*1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P |                   |                  | D1103               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1103              | 1-691-160-11                  | PIN, CONNECTOR 3P |                  | D1104               | 8-719-109-96                  | DIODE RD6.8ES-B1    |        |
| CN1104*1-564-505-11 | PLUG, CONNECTOR 2P            |                   |                  | D1105               | 8-719-109-96                  | DIODE RD6.8ES-B1    |        |
| CN1105*1-564-506-11 | PLUG, CONNECTOR 3P            |                   |                  | D1107               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1106*1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P |                   |                  | D1108               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1107              | 1-691-165-11                  | PIN, CONNECTOR 8P |                  | D1109               | 8-719-109-84                  | DIODE RD5.1ES-B1    |        |
| CN1109*1-691-616-11 | CONNECTOR, BOARD TO BOARD 15P |                   |                  | D1130               | 8-719-016-42                  | DIODE MC932         |        |
| CN1110*1-564-510-11 | PLUG, CONNECTOR 7P            |                   |                  | D1131               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1111*1-564-512-11 | PLUG, CONNECTOR 9P            |                   |                  | D1132               | 8-719-109-81                  | DIODE RD4.7ES-B2    |        |
| CN1112*1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |                   |                  | D1201               | 8-719-110-36                  | DIODE RD13ES-B2     |        |
| CN1113*1-565-394-11 | PIN, BOARD TO BOARD CONNECTOR |                   |                  | D1202               | 8-719-110-36                  | DIODE RD13ES-B2     |        |
| CN1115*1-564-513-11 | PLUG, CONNECTOR 10P           |                   |                  | D1203               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1116*1-573-960-11 | CONNECTOR (FEMALE) 50P        |                   |                  | D1204               | 8-719-510-48                  | DIODE DIN20R        |        |
| CN1117*1-573-960-11 | CONNECTOR (FEMALE) 50P        |                   |                  | D1206               | 8-719-510-48                  | DIODE DIN20R        |        |
| CN1118*1-573-978-11 | CONNECTOR, BOARD TO BOARD 11P |                   |                  | D2001               | 8-719-981-50                  | DIODE RB-100A       |        |
| CN1119*1-573-978-11 | CONNECTOR, BOARD TO BOARD 11P |                   |                  | D3501               | 8-719-911-19                  | DIODE ISS119        |        |
| CN1121*1-564-511-11 | PLUG, CONNECTOR 8P            |                   |                  | D3502               | 8-719-109-88                  | DIODE RD5.6ES-B1    |        |
|                     |                               |                   |                  | D3503               | 8-719-110-22                  | DIODE RD11ES-B2     |        |
| <IC>                |                               |                   |                  | <IC>                |                               |                     |        |
|                     |                               |                   |                  | IC1101              | 8-759-800-81                  | IC LA7016           |        |
|                     |                               |                   |                  | IC1201              | 8-759-145-57                  | IC UPC4557C         |        |
|                     |                               |                   |                  | IC1202              | 8-759-145-27                  | IC UPC1406HA        |        |
|                     |                               |                   |                  | IC1203              | 8-759-246-70                  | IC TA8216H          |        |
|                     |                               |                   |                  | IC2602              | 8-759-802-21                  | IC L780S09          |        |
|                     |                               |                   |                  | IC2603              | 8-759-802-18                  | IC L780S05          |        |
|                     |                               |                   |                  | IC2604              | 8-759-802-23                  | IC L780S12          |        |
|                     |                               |                   |                  | IC2606              | 8-759-802-21                  | IC L780S09          |        |
|                     |                               |                   |                  | IC2607              | 8-719-160-86                  | DIODE RD33F-B1      |        |
|                     |                               |                   |                  | IC3501              | 8-752-057-68                  | IC CXA1464AS        |        |
|                     |                               |                   |                  | IC3502              | 8-759-112-93                  | IC UPC4570HA-1      |        |
|                     |                               |                   |                  | IC3503              | 8-752-057-18                  | IC CXA1315P         |        |
| <IF BLOCK>          |                               |                   |                  | <IF BLOCK>          |                               |                     |        |
|                     |                               |                   |                  | IF1101              | 1-466-677-11                  | IF BLOCK (IFF-380)  |        |
|                     |                               |                   |                  | IF1102              | 1-466-138-11                  | IF BLOCK (IFD-380A) |        |
| <JACK>              |                               |                   |                  | <JACK>              |                               |                     |        |
|                     |                               |                   |                  | J1101               | 1-507-562-00                  | JACK                |        |
|                     |                               |                   |                  | J1102               | 1-507-562-00                  | JACK                |        |
| <COIL>              |                               |                   |                  | <COIL>              |                               |                     |        |
|                     |                               |                   |                  | L1101               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1102               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1103               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1104               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1105               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1106               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1107               | 1-408-429-00                  | INDUCTOR 470UH      |        |
|                     |                               |                   |                  | L1108               | 1-410-478-11                  | INDUCTOR 47UH       |        |
|                     |                               |                   |                  | L1201               | 1-408-421-00                  | INDUCTOR 100UH      |        |



A

| REF.NO.      | PART NO.     | DESCRIPTION | REMARK       | REF.NO. | PART NO.     | DESCRIPTION | REMARK       |
|--------------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| L1203        | 1-410-478-11 | INDUCTOR    | 47UH         | R1107   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| L2601        | 1-412-528-11 | INDUCTOR    | 18UH         | R1108   | 1-249-431-11 | CARBON      | 15K 5% 1/4W  |
| L2602        | 1-412-533-11 | INDUCTOR    | 47UH         | R1109   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| L2603        | 1-412-533-11 | INDUCTOR    | 47UH         | R1110   | 1-249-439-11 | CARBON      | 68K 5% 1/4W  |
| L2604        | 1-412-529-11 | INDUCTOR    | 22UH         | R1111   | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| L2605        | 1-412-533-11 | INDUCTOR    | 47UH         | R1112   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| <TRANSISTOR> |              |             |              | R1113   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| Q1101        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1114   | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| Q1102        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1115   | 1-249-433-11 | CARBON      | 22K 5% 1/4W  |
| Q1103        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1116   | 1-249-413-11 | CARBON      | 470 5% 1/4W  |
| Q1104        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1117   | 1-249-404-00 | CARBON      | 82 5% 1/4W   |
| Q1105        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1118   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| Q1106        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1119   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
| Q1107        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1120   | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| Q1108        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1121   | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| Q1110        | 8-729-808-36 | TRANSISTOR  | 2SK669       | R1122   | 1-249-395-11 | CARBON      | 15 5% 1/4W F |
| Q1112        | 8-729-808-36 | TRANSISTOR  | 2SK669       | R1123   | 1-249-395-11 | CARBON      | 15 5% 1/4W F |
| Q1113        | 8-729-900-89 | TRANSISTOR  | DTC144ES     | R1124   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q1114        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1125   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q1115        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1126   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q1116        | 8-729-900-80 | TRANSISTOR  | DTC114ES     | R1127   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q1117        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1128   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q1118        | 8-729-900-89 | TRANSISTOR  | DTC144ES     | R1129   | 1-249-428-11 | CARBON      | 8.2K 5% 1/4W |
| Q1119        | 8-729-900-89 | TRANSISTOR  | DTC144ES     | R1130   | 1-249-415-11 | CARBON      | 680 5% 1/4W  |
| Q1130        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1131   | 1-247-903-00 | CARBON      | 1M 5% 1/4W   |
| Q1132        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1132   | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| Q1133        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1133   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q1134        | 8-729-900-89 | TRANSISTOR  | DTC144ES     | R1134   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q1135        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1135   | 1-249-428-11 | CARBON      | 8.2K 5% 1/4W |
| Q1201        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1136   | 1-249-405-11 | CARBON      | 100 5% 1/4W  |
| Q1202        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1137   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q1203        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1139   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| Q1204        | 8-729-900-89 | TRANSISTOR  | DTC144ES     | R1140   | 1-249-433-11 | CARBON      | 22K 5% 1/4W  |
| Q1205        | 8-729-900-89 | TRANSISTOR  | DTC144ES     | R1141   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q2001        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1144   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| Q2002        | 8-729-900-85 | TRANSISTOR  | DTC144WS     | R1145   | 1-249-433-11 | CARBON      | 22K 5% 1/4W  |
| Q3503        | 8-729-900-36 | TRANSISTOR  | DTC124ES     | R1146   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q3504        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1148   | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| Q3505        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1149   | 1-247-881-00 | CARBON      | 120K 5% 1/4W |
| Q3506        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1150   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q3507        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1152   | 1-249-417-11 | CARBON      | 1K 5% 1/4W   |
| Q3508        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1153   | 1-249-417-11 | CARBON      | 1K 5% 1/4W   |
| Q3509        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1154   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q3511        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1155   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q3512        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1156   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q3513        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1158   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q3514        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1160   | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| Q3515        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1161   | 1-249-440-11 | CARBON      | 82K 5% 1/4W  |
| Q3516        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1162   | 1-249-417-11 | CARBON      | 1K 5% 1/4W   |
| Q3517        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1163   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W |
| Q3518        | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE  | R1164   | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| Q3519        | 8-729-900-36 | TRANSISTOR  | DTC124ES     | R1165   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| Q3520        | 8-729-900-36 | TRANSISTOR  | DTC124ES     | R1166   | 1-247-889-00 | CARBON      | 270K 5% 1/4W |
| Q3521        | 8-729-900-36 | TRANSISTOR  | DTC124ES     | R1167   | 1-247-889-00 | CARBON      | 270K 5% 1/4W |
| Q3522        | 8-729-119-78 | TRANSISTOR  | 2SC2785-HFE  | R1168   | 1-249-435-11 | CARBON      | 33K 5% 1/4W  |
| <RESISTOR>   |              |             |              | R1169   | 1-249-405-11 | CARBON      | 100 5% 1/4W  |
| R1103        | 1-249-415-11 | CARBON      | 680 5% 1/4W  | R1170   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R1104        | 1-247-903-00 | CARBON      | 1M 5% 1/4W   | R1171   | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R1105        | 1-249-441-11 | CARBON      | 100K 5% 1/4W | R1173   | 1-249-417-11 | CARBON      | 1K 5% 1/4W   |
| R1106        | 1-249-429-11 | CARBON      | 10K 5% 1/4W  | R1174   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
|              |              |             |              | R1175   | 1-249-437-11 | CARBON      | 47K 5% 1/4W  |
|              |              |             |              | R1176   | 1-249-435-11 | CARBON      | 33K 5% 1/4W  |
|              |              |             |              | R1177   | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W |

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

A

| REF. NO. | PART NO.     | DESCRIPTION | REMARK         | REF. NO. | PART NO.     | DESCRIPTION | REMARK        |
|----------|--------------|-------------|----------------|----------|--------------|-------------|---------------|
| R1178    | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W   | R3527    | 1-249-417-11 | CARBON      | 1K 5% 1/4W F  |
| R1179    | 1-249-428-11 | CARBON      | 8.2K 5% 1/4W   | R3528    | 1-259-880-11 | CARBON      | 2.2M 5% 1/4W  |
| R1201    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3529    | 1-249-415-11 | CARBON      | 680 5% 1/4W   |
| R1202    | 1-249-406-11 | CARBON      | 120 5% 1/4W    | R3531    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W  |
| R1203    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3532    | 1-249-405-11 | CARBON      | 100 5% 1/4W F |
| R1204    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R3533    | 1-249-405-11 | CARBON      | 100 5% 1/4W   |
| R1205    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R3534    | 1-249-415-11 | CARBON      | 680 5% 1/4W   |
| R1206    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3535    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1207    | 1-249-406-11 | CARBON      | 120 5% 1/4W    | R3536    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1208    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3538    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1209    | 1-247-899-11 | CARBON      | 680K 5% 1/4W   | R3539    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1210    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3540    | 1-249-438-11 | CARBON      | 56K 5% 1/4W   |
| R1211    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R3541    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1212    | 1-247-899-11 | CARBON      | 680K 5% 1/4W   | R3542    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R1213    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3543    | 1-247-887-00 | CARBON      | 220K 5% 1/4W  |
| R1214    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3544    | 1-247-883-00 | CARBON      | 150K 5% 1/4W  |
| R1215    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R3545    | 1-249-435-11 | CARBON      | 33K 5% 1/4W   |
| R1216    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3546    | 1-249-435-11 | CARBON      | 33K 5% 1/4W   |
| R1217    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R3547    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1218    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3548    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1219    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3549    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W  |
| R1221    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3550    | 1-247-887-00 | CARBON      | 220K 5% 1/4W  |
| R1223    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3551    | 1-249-439-11 | CARBON      | 68K 5% 1/4W   |
| R1224    | 1-249-435-11 | CARBON      | 33K 5% 1/4W    | R3552    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1225    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3553    | 1-249-409-11 | CARBON      | 220 5% 1/4W   |
| R1226    | 1-249-385-11 | CARBON      | 2.2 5% 1/4W F  | R3554    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R1227    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R3555    | 1-249-409-11 | CARBON      | 220 5% 1/4W   |
| R1228    | 1-249-385-11 | CARBON      | 2.2 5% 1/4W F  | R3556    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1229    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R3557    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W  |
| R1232    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3558    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W  |
| R1235    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | R3559    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R1236    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    | R3560    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R1240    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R3561    | 1-249-433-11 | CARBON      | 22K 5% 1/4W   |
| R1242    | 1-216-349-00 | METAL OXIDE | 1 5% 1W F      | R3562    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W  |
| R1243    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R3563    | 1-249-417-11 | CARBON      | 1K 5% 1/4W    |
| R2001    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R3564    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R2002    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R3565    | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W  |
| R2003    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R3566    | 1-249-424-11 | CARBON      | 3.9K 5% 1/4W  |
| R2601    | 1-215-905-11 | METAL OXIDE | 10 5% 3W F     | R3567    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W  |
| R2602    | 1-215-916-00 | METAL OXIDE | 680 5% 3W F    | R3568    | 1-259-884-11 | CARBON      | 4.7M 5% 1/4W  |
| R2603    | 1-215-905-11 | METAL OXIDE | 10 5% 3W F     | R3569    | 1-249-415-11 | CARBON      | 680 5% 1/4W   |
| R2604    | 1-215-905-11 | METAL OXIDE | 10 5% 3W F     | R3570    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R2605    | 1-215-905-11 | METAL OXIDE | 10 5% 3W F     | R3571    | 1-249-441-11 | CARBON      | 100K 5% 1/4W  |
| R2606    | 1-215-875-11 | METAL OXIDE | 10K 5% 1W F    | R3581    | 1-249-409-11 | CARBON      | 220 5% 1/4W   |
| R2607    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3582    | 1-249-409-11 | CARBON      | 220 5% 1/4W   |
| R2608    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3583    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R2609    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3584    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R2610    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3585    | 1-249-438-11 | CARBON      | 56K 5% 1/4W   |
| R3506    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R3586    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R3507    | 1-259-882-11 | CARBON      | 3.3M 5% 1/4W   | R3587    | 1-247-903-00 | CARBON      | 1M 5% 1/4W    |
| R3508    | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W   | R3588    | 1-249-429-11 | CARBON      | 10K 5% 1/4W   |
| R3509    | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W   | R3589    | 1-247-903-00 | CARBON      | 1M 5% 1/4W    |
| R3512    | 1-215-441-00 | METAL       | 6.8K 1% 1/4W   | R3590    | 1-249-437-11 | CARBON      | 47K 5% 1/4W   |
| R3514    | 1-249-409-11 | CARBON      | 220 5% 1/4W    | R3591    | 1-259-878-11 | CARBON      | 1.5M 5% 1/4W  |
| R3515    | 1-249-409-11 | CARBON      | 220 5% 1/4W    |          |              |             |               |
| R3516    | 1-249-405-11 | CARBON      | 100 5% 1/4W    |          |              |             |               |
| R3517    | 1-215-457-00 | METAL       | 33K 1% 1/4W    |          |              |             |               |
| R3518    | 1-249-405-11 | CARBON      | 100 5% 1/4W    |          |              |             |               |
| R3519    | 1-249-409-11 | CARBON      | 220 5% 1/4W F  |          |              |             |               |
| R3520    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     |          |              |             |               |
| R3521    | 1-249-418-11 | CARBON      | 1.2K 5% 1/4W F |          |              |             |               |
| R3523    | 1-249-428-11 | CARBON      | 8.2K 5% 1/4W   |          |              |             |               |
| R3524    | 1-247-889-00 | CARBON      | 270K 5% 1/4W   |          |              |             |               |
| R3525    | 1-249-409-11 | CARBON      | 220 5% 1/4W    |          |              |             |               |

<TUNER>

TU1101A 1-693-123-11 TUNER, ET (BTP-RG401)  
TU1102A 1-693-123-11 TUNER, ET (BTP-RG401)

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M

| REF.NO.       | PART NO.                              | DESCRIPTION          | REMARK     | REF.NO. | PART NO.      | DESCRIPTION                           | REMARK  |
|---------------|---------------------------------------|----------------------|------------|---------|---------------|---------------------------------------|---------|
| *A-1306-425-A | M BOARD, COMPLETE (KV-S29JN1, S34JN1) | *****                |            | C062    | 1-163-001-11  | CERAMIC CHIP 220PF                    | 10% 50V |
|               |                                       |                      |            | C063    | 1-163-001-11  | CERAMIC CHIP 220PF                    | 10% 50V |
|               |                                       |                      |            | C064    | 1-163-001-11  | CERAMIC CHIP 220PF                    | 10% 50V |
|               |                                       |                      |            | C065    | 1-163-001-11  | CERAMIC CHIP 220PF                    | 10% 50V |
| *A-1306-418-A | M BOARD, COMPLETE                     | *****                |            | C066    | 1-124-907-11  | ELECT 10MF                            | 20% 50V |
|               | (KV-S29MN1, S29SN1, S34MN1, S34SN1)   |                      |            | C067    | 1-163-001-11  | CERAMIC CHIP 220PF                    | 10% 50V |
|               | <CAPACITOR>                           |                      |            | C068    | 1-124-907-11  | ELECT 10MF                            | 20% 50V |
| C001          | 1-124-907-11                          | ELECT 10MF           | 20% 50V    | C069    | 1-124-907-11  | ELECT 10MF                            | 20% 50V |
| C002          | 1-124-907-11                          | ELECT 10MF           | 20% 50V    | C070    | 1-124-907-11  | ELECT 10MF                            | 20% 50V |
| C003          | 1-163-033-00                          | CERAMIC CHIP 0.022MF | 50V        | C071    | 1-124-907-11  | ELECT 10MF                            | 20% 50V |
| C004          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | C072    | 1-163-001-11  | CERAMIC CHIP 220PF                    | 10% 50V |
| C005          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | C073    | 1-136-165-00  | FILM 0.1MF                            | 5% 50V  |
| C006          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | <CONNECTOR>                           |         |
| C009          | 1-136-495-81                          | FILM 0.068MF         | 5% 50V     | CN001   | *1-564-525-11 | PLUG, CONNECTOR 10P                   |         |
| C010          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | CN002   | *1-573-965-11 | PIN, CONNECTOR (PC BOARD) 50P         |         |
| C012          | 1-124-477-11                          | ELECT 47MF           | 20% 16V    |         |               | <DIODE>                               |         |
| C014          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | D002    | 8-719-800-76  | DIODE 1SS226                          |         |
| C015          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | (KV-S29MN1, S29SN1, S34MN1, S34SN1)   |         |
| C016          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | D003    | 8-719-800-76  | DIODE 1SS226                          |         |
| C017          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | (KV-S29MN1, S29SN1, S34MN1, S34SN1)   |         |
| C018          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | <IC>                                  |         |
| C019          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | IC001   | 8-759-043-86  | IC ST24C02AB1                         |         |
| C020          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | IC002   | 8-759-043-86  | IC ST24C02AB1                         |         |
| C021          | 1-124-477-11                          | ELECT 47MF           | 20% 16V    | IC003   | 8-759-403-44  | IC MN1280-S                           |         |
| C022          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | IC004   | 8-759-069-75  | IC MB90061-125                        |         |
| C023          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | IC005   | 8-759-069-76  | IC M37204M8-A10SP                     |         |
| C024          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | (KV-S29MN1, S29SN1, S34MN1, S34SN1)   |         |
| C025          | 1-124-477-11                          | ELECT 47MF           | 20% 16V    | IC006   | 8-759-091-39  | IC M37204M8-A11SP (KV-S29JN1, S34JN1) |         |
| C026          | 1-163-099-00                          | CERAMIC CHIP 18PF    | 5% 50V     |         |               | IC UPC78N05H                          |         |
| C027          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | <COIL>                                |         |
| C028          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | L001    | 1-410-470-11  | INDUCTOR 10UH                         |         |
| C029          | 1-163-103-00                          | CERAMIC CHIP 27PF    | 5% 50V     | L002    | 1-408-413-00  | INDUCTOR 22UH                         |         |
| C030          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | L003    | 1-410-470-11  | INDUCTOR 10UH                         |         |
| C031          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | L004    | 1-410-470-11  | INDUCTOR 10UH                         |         |
| C033          | 1-163-097-00                          | CERAMIC CHIP 15PF    | 5% 50V     | L005    | 1-410-470-11  | INDUCTOR 10UH                         |         |
| C034          | 1-163-087-00                          | CERAMIC CHIP 4PF     | 0.25PF 50V |         |               | <TRANSISTOR>                          |         |
| C035          | 1-163-105-00                          | CERAMIC CHIP 33PF    | 5% 50V     | Q001    | 8-729-230-49  | TRANSISTOR 2SC2712-YG                 |         |
| C036          | 1-163-105-00                          | CERAMIC CHIP 33PF    | 5% 50V     | Q002    | 8-729-230-49  | TRANSISTOR 2SC2712-YG                 |         |
| C037          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | Q003    | 8-729-901-01  | TRANSISTOR DTC144EK                   |         |
| C038          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | Q004    | 8-729-901-01  | TRANSISTOR DTC144EK                   |         |
| C039          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | Q005    | 8-729-901-01  | TRANSISTOR DTC144EK                   |         |
| C040          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               | <RESISTOR>                            |         |
| C041          | 1-124-477-11                          | ELECT 47MF           | 20% 16V    | R001    | 1-216-033-00  | METAL GLAZE 220 5%                    | 1/10W   |
| C042          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R002    | 1-216-057-00  | METAL GLAZE 2.2K 5%                   | 1/10W   |
| C043          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R003    | 1-216-033-00  | METAL GLAZE 220 5%                    | 1/10W   |
| C044          | 1-124-907-11                          | ELECT 10MF           | 20% 50V    | R004    | 1-216-033-00  | METAL GLAZE 220 5%                    | 1/10W   |
| C045          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R005    | 1-216-065-00  | METAL GLAZE 4.7K 5%                   | 1/10W   |
| C046          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R006    | 1-216-033-00  | METAL GLAZE 220 5%                    | 1/10W   |
| C047          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R007    | 1-216-057-00  | METAL GLAZE 2.2K 5%                   | 1/10W   |
| C048          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R008    | 1-216-073-00  | METAL GLAZE 10K 5%                    | 1/10W   |
| C049          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R009    | 1-216-073-00  | METAL GLAZE 10K 5%                    | 1/10W   |
| C050          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R010    | 1-216-065-00  | METAL GLAZE 4.7K 5%                   | 1/10W   |
| C051          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    | R011    | 1-216-033-00  | METAL GLAZE 220 5%                    | 1/10W   |
| C052          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C053          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C054          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C055          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C056          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C057          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C058          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C059          | 1-124-477-11                          | ELECT 47MF           | 20% 16V    |         |               |                                       |         |
| C060          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |
| C061          | 1-163-001-11                          | CERAMIC CHIP 220PF   | 10% 50V    |         |               |                                       |         |

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| REF.NO. | PART NO.     | DESCRIPTION | REMARK        | REF.NO.       | PART NO.                                             | DESCRIPTION                  | REMARK          |
|---------|--------------|-------------|---------------|---------------|------------------------------------------------------|------------------------------|-----------------|
| R012    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | R082          | 1-216-033-00                                         | METAL GLAZE                  | 220 5% 1/10W    |
| R013    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R083          | 1-216-065-00                                         | METAL GLAZE                  | 4.7K 5% 1/10W   |
| R014    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R084          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R015    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R085          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R016    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R086          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R017    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R087          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R018    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R088          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R019    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R089          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R020    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R090          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R021    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R091          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R022    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R092          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R023    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R093          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R024    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R094          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R025    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R095          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R026    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R096          | 1-216-033-00                                         | METAL GLAZE                  | 220 5% 1/10W    |
| R027    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R097          | 1-216-033-00                                         | METAL GLAZE                  | 220 5% 1/10W    |
| R028    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | R098          | 1-216-033-00                                         | METAL GLAZE                  | 220 5% 1/10W    |
| R029    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | R099          | 1-216-073-00                                         | METAL GLAZE                  | 10K 5% 1/10W    |
| R031    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R100          | 1-216-049-00                                         | METAL GLAZE                  | 1K 5% 1/10W     |
| R032    | 1-216-065-00 | METAL GLAZE | 4.7K 5% 1/10W | R101          | 1-216-049-00                                         | METAL GLAZE                  | 1K 5% 1/10W     |
| R033    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | <CRYSTAL>     |                                                      |                              |                 |
| R034    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | X001          | 1-577-082-11                                         | VIBRATOR, CERAMIC            |                 |
| R035    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | X002          | 1-577-289-11                                         | VIBRATOR, CRYSTAL 17.7MHZ    |                 |
| R036    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               | 3-741-396-01                                         | INSULATOR; X002              |                 |
| R037    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | *****         |                                                      |                              |                 |
| R038    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | *A-1331-217-A | C BOARD, COMPLETE                                    |                              |                 |
| R039    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | *****         |                                                      |                              |                 |
| R040    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | *4-341-751-01 | EYELET (EY50-EY52,EY57-EY59,E162,EY67)               |                              |                 |
| R042    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | *4-341-752-01 | EYELET (EY53-EY56,EY60,EY61,E163-EY66,<br>EY68-EY74) |                              |                 |
| R043    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | <CAPACITOR>   |                                                      |                              |                 |
| R044    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C701          | 1-162-116-00                                         | CERAMIC                      | 680PF 10% 2KV   |
| R045    | 1-216-049-00 | METAL GLAZE | 1K 5% 1/10W   | C702          | 1-137-490-11                                         | FILM                         | 0.01MF 10% 1KV  |
| R046    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C704          | 1-123-946-00                                         | ELECT                        | 4.7MF 20% 250V  |
| R047    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C705          | 1-106-375-12                                         | MYLAR                        | 0.022MF 200V    |
| R048    | 1-216-025-00 | METAL GLAZE | 100 5% 1/10W  | C706          | 1-106-375-12                                         | MYLAR                        | 0.022MF 200V    |
| R049    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C707          | 1-164-083-11                                         | CERAMIC                      | 680PF 10% 50V   |
| R050    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C708          | 1-164-083-11                                         | CERAMIC                      | 680PF 10% 50V   |
| R051    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C709          | 1-164-083-11                                         | CERAMIC                      | 680PF 10% 50V   |
| R052    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C710          | 1-102-820-00                                         | CERAMIC                      | 330PF 5% 50V    |
| R053    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C711          | 1-126-233-11                                         | ELECT                        | 22MF 20% 25V    |
| R054    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C712          | 1-102-820-00                                         | CERAMIC                      | 330PF 5% 50V    |
| R055    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C713          | 1-102-820-00                                         | CERAMIC                      | 330PF 5% 50V    |
| R056    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C715          | 1-102-074-00                                         | CERAMIC                      | 0.001MF 10% 50V |
| R057    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C719          | 1-101-880-00                                         | CERAMIC                      | 47PF 5% 50V     |
| R058    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C730          | 1-164-083-11                                         | CERAMIC                      | 680PF 10% 50V   |
| R059    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C731          | 1-164-083-11                                         | CERAMIC                      | 680PF 10% 50V   |
| R064    | 1-216-073-00 | METAL GLAZE | 10K 5% 1/10W  | C732          | 1-164-083-11                                         | CERAMIC                      | 680PF 10% 50V   |
| R065    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | C733          | 1-102-074-00                                         | CERAMIC                      | 0.001MF 10% 50V |
| R066    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | <CONNECTOR>   |                                                      |                              |                 |
| R067    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | CN701         | *1-691-134-11                                        | PIN, CONNECTOR (PC BOARD) 2P |                 |
| R068    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | CN702         | *1-573-964-11                                        | PIN, CONNECTOR (PC BOARD) 6P |                 |
| R069    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  | CN703         | *1-564-509-11                                        | PLUG, CONNECTOR 6P           |                 |
| R070    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R071    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R072    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R073    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R074    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R075    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R076    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R077    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R078    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R079    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R080    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |
| R081    | 1-216-033-00 | METAL GLAZE | 220 5% 1/10W  |               |                                                      |                              |                 |

C

Vm

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

| REF. NO.     | PART NO.              | DESCRIPTION                   | REMARK | REF. NO.            | PART NO.              | DESCRIPTION                | REMARK |
|--------------|-----------------------|-------------------------------|--------|---------------------|-----------------------|----------------------------|--------|
| <DIODE>      |                       |                               |        |                     |                       |                            |        |
| D701         | 8-719-911-19          | DIODE 1SS119                  |        | R729                | 1-249-405-11          | CARBON 100 5% 1/4W         |        |
| D702         | 8-719-911-19          | DIODE 1SS119                  |        | R730                | 1-249-412-11          | CARBON 390 5% 1/4W         |        |
| D703         | 8-719-911-19          | DIODE 1SS119                  |        | R731                | 1-247-713-11          | CARBON 1K 5% 1/4W          | F      |
| D704         | 8-719-911-19          | DIODE 1SS119                  |        | R732                | 1-247-713-11          | CARBON 1K 5% 1/4W          | F      |
| D705         | 8-719-911-19          | DIODE 1SS119                  |        | R733                | 1-247-713-11          | CARBON 1K 5% 1/4W          | F      |
| D706         | 8-719-911-19          | DIODE 1SS119                  |        | R735                | 1-249-423-11          | CARBON 3.3K 5% 1/4W        |        |
| D707         | 8-719-911-19          | DIODE 1SS119                  |        | R739                | 1-215-453-00          | METAL 22K 1% 1/4W          |        |
| D708         | 8-719-911-19          | DIODE 1SS119                  |        | R742                | 1-215-474-00          | METAL 160K 1% 1/4W         |        |
| D709         | 8-719-911-19          | DIODE 1SS119                  |        | R743                | 1-215-461-00          | METAL 47K 1% 1/4W          |        |
| D713         | 8-719-911-19          | DIODE 1SS119                  |        | R744                | 1-215-463-00          | METAL 56K 1% 1/4W          |        |
| D714         | 8-719-911-19          | DIODE 1SS119                  |        | R748                | 1-216-367-11          | METAL OXIDE 0.68 5% 2W     | F      |
| D715         | 8-719-911-19          | DIODE 1SS119                  |        | R749                | 1-249-415-11          | CARBON 680 5% 1/4W         |        |
| D716         | 8-719-911-19          | DIODE 1SS119                  |        | R751                | 1-249-401-11          | CARBON 47 5% 1/4W          |        |
| D718         | 8-719-110-14          | DIODE RD9.1ES-B3              |        | R752                | 1-249-401-11          | CARBON 47 5% 1/4W          |        |
| <JACK>       |                       |                               |        | R753                | 1-249-401-11          | CARBON 47 5% 1/4W          |        |
| J701         | $\Delta$ 1-540-223-11 | SOCKET, PICTURE TUBE          |        | R754                | 1-249-415-11          | CARBON 680 5% 1/4W         |        |
| <COIL>       |                       |                               |        | R755                | 1-249-423-11          | CARBON 3.3K 5% 1/4W        |        |
| L701         | 1-410-671-31          | INDUCTOR 47UH                 |        | <VARIABLE RESISTOR> |                       |                            |        |
| L702         | 1-410-645-31          | INDUCTOR 100UH                |        | RV701               | 1-230-641-11          | RES, ADJ, METAL GLAZE 2.2M |        |
| L703         | 1-410-674-31          | INDUCTOR 82UH                 |        | RV702               | $\Delta$ 1-241-714-12 | RES, ADJ, METAL FILM 110M  |        |
| L704         | 1-410-471-11          | INDUCTOR 12UH                 |        | RV704               | 1-228-991-00          | RES, ADJ, CARBON 2.2K      |        |
| L705         | 1-410-473-11          | INDUCTOR 18UH                 |        | RV705               | 1-228-991-00          | RES, ADJ, CARBON 2.2K      |        |
| L706         | 1-410-645-31          | INDUCTOR 100UH                |        | *****               |                       |                            |        |
| L707         | 1-408-411-00          | INDUCTOR 15UH                 |        | *A-1342-186-A       | VM BOARD, COMPLETE    | *****                      |        |
| <TRANSISTOR> |                       |                               |        | *4-341-751-01       | EYELET (EY5)          |                            |        |
| Q701         | 8-729-326-11          | TRANSISTOR 2SC2611            |        | *4-341-752-01       | EYELET (EY1-EY4)      |                            |        |
|              | 3-704-359-01          | SCREW (M3X10), SW (+) P; Q701 |        | <CAPACITOR>         |                       |                            |        |
| Q702         | 8-729-119-78          | TRANSISTOR 2SC2785-HFE        |        | C1751               | 1-102-074-00          | CERAMIC 0.001MF 10% 50V    |        |
| Q703         | 8-729-200-17          | TRANSISTOR 2SA1091-0          |        | C1752               | 1-102-125-00          | CERAMIC 0.0047MF 10% 50V   |        |
| Q704         | 8-729-326-11          | TRANSISTOR 2SC2611            |        | C1761               | 1-161-830-00          | CERAMIC 0.0047MF 500V      |        |
|              | 3-704-359-01          | SCREW (M3X10), SW (+) P; Q704 |        | C1762               | 1-102-951-00          | CERAMIC 15PF 5% 50V        |        |
| Q705         | 8-729-119-78          | TRANSISTOR 2SC2785-HFE        |        | C1763               | 1-123-935-00          | ELECT 33MF 20% 160V        |        |
| Q706         | 8-729-200-17          | TRANSISTOR 2SA1091-0          |        | C1764               | 1-126-101-11          | ELECT 100MF 20% 16V        |        |
| Q707         | 8-729-200-17          | TRANSISTOR 2SA1091-0          |        | C1768               | 1-106-383-00          | MYLAR 0.047MF 200V         |        |
| Q708         | 8-729-326-11          | TRANSISTOR 2SC2611            |        | C1769               | 1-124-799-11          | ELECT 2.2MF 20% 160V       |        |
|              | 3-704-359-01          | SCREW (M3X10), SW (+) P; Q708 |        | C1770               | 1-106-391-12          | MYLAR 0.1MF 10% 200V       |        |
| Q709         | 8-729-119-78          | TRANSISTOR 2SC2785-HFE        |        | C1771               | 1-126-157-11          | ELECT 10MF 20% 16V         |        |
| <RESISTOR>   |                       |                               |        | C1772               | 1-124-119-00          | ELECT 330MF 20% 16V        |        |
| R702         | 1-202-883-11          | SOLID 680K 20% 1/2W           |        | C1773               | 1-106-383-00          | MYLAR 0.047MF 200V         |        |
| R703         | 1-202-838-00          | SOLID 100K 20% 1/2W           |        | C1774               | 1-102-959-00          | CERAMIC 22PF 5% 50V        |        |
| R706         | 1-202-815-11          | SOLID 47K 20% 1/2W            |        | C1775               | 1-126-101-11          | ELECT 100MF 20% 16V        |        |
| R707         | 1-202-842-11          | SOLID 220K 20% 1/2W           |        | C1776               | 1-126-157-11          | ELECT 10MF 20% 16V         |        |
| R708         | 1-202-824-00          | SOLID 3.3K 20% 1/2W           |        | C1777               | 1-102-963-00          | CERAMIC 33PF 5% 50V        |        |
| R709         | 1-202-824-00          | SOLID 3.3K 20% 1/2W           |        | C1778               | 1-130-471-00          | MYLAR 0.001MF 5% 50V       |        |
| R710         | 1-202-824-00          | SOLID 3.3K 20% 1/2W           |        | C1779               | 1-130-471-00          | MYLAR 0.001MF 5% 50V       |        |
| R713         | 1-216-486-00          | METAL OXIDE 8.2K 5% 3W        | F      | C1780               | 1-126-157-11          | ELECT 10MF 20% 16V         |        |
| R714         | 1-249-409-11          | CARBON 220 5% 1/4W            |        | <CONNECTOR>         |                       |                            |        |
| R715         | 1-202-549-00          | SOLID 100 20% 1/2W            |        | CN1763              | *1-564-512-11         | PLUG, CONNECTOR 9P         |        |
| R716         | 1-216-486-00          | METAL OXIDE 8.2K 5% 3W        | F      | <DIODE>             |                       |                            |        |
| R717         | 1-249-409-11          | CARBON 220 5% 1/4W            |        | D1761               | 8-719-911-19          | DIODE 1SS119               |        |
| R718         | 1-249-409-11          | CARBON 220 5% 1/4W            |        | D1763               | 8-719-911-19          | DIODE 1SS119               |        |
| R720         | 1-216-486-00          | METAL OXIDE 8.2K 5% 3W        | F      | D1764               | 8-719-911-19          | DIODE 1SS119               |        |
| R723         | 1-249-405-11          | CARBON 100 5% 1/4W            |        | D1765               | 8-719-911-19          | DIODE 1SS119               |        |
| R724         | 1-249-405-11          | CARBON 100 5% 1/4W            |        | D1766               | 8-719-911-19          | DIODE 1SS119               |        |
| R726         | 1-249-416-11          | CARBON 820 5% 1/4W            |        |                     |                       |                            |        |
| R728         | 1-249-415-11          | CARBON 680 5% 1/4W            |        |                     |                       |                            |        |

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-82

Vm

D

| REF.NO.       | PART NO.     | DESCRIPTION                                    | REMARK | REF.NO.       | PART NO.     | DESCRIPTION                                                                         | REMARK |
|---------------|--------------|------------------------------------------------|--------|---------------|--------------|-------------------------------------------------------------------------------------|--------|
| D1767         | 8-719-110-88 | DIODE RD39ES-B2                                |        | *A-1346-107-A |              | D BOARD, COMPLETE (KV-S34SN1)<br>*****                                              |        |
| D1768         | 8-719-110-88 | DIODE RD39ES-B2                                |        | *4-341-751-01 |              | EYELET (EY1-EY7, EY20-EY27, EY35-EY41, EY47-EY60, EY62-EY69, EY78-EY96, EY99-EY104) |        |
|               | <COIL>       |                                                |        | *4-341-752-01 |              | EYELET (EY8-EY19, EY28-EY34, EY42-EY46, EY70-EY77)                                  |        |
| L1762         | 1-408-416-00 | INDUCTOR 39UH                                  |        |               | <CAPACITOR>  |                                                                                     |        |
|               | <TRANSISTOR> |                                                |        | C501          | 1-130-471-00 | FILM 0.001MF 5% 50V                                                                 |        |
| Q1756         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                         |        | C503          | 1-136-161-00 | FILM 0.047MF 5% 50V                                                                 |        |
| Q1761         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                         |        | C504          | 1-124-465-00 | ELECT 0.47MF 20% 50V                                                                |        |
| Q1762         | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                         |        | C505          | 1-130-473-00 | MYLAR 0.0015MF 5% 50V                                                               |        |
| Q1763         | 8-729-208-39 | TRANSISTOR 2SA1306A-Y                          |        |               |              | (KV-S29JN1, S29MN1, S29SN1)                                                         |        |
|               | 4-382-854-11 | SCREW (M3X10), P, SW (+); Q1763                |        |               |              |                                                                                     |        |
| Q1764         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                         |        |               | 1-130-474-00 | MYLAR 0.0018MF 5% 50V                                                               |        |
| Q1765         | 8-729-208-72 | TRANSISTOR 2SC3298B-Y                          |        |               |              | (KV-S34JN1, S34MN1, S34SN1)                                                         |        |
|               | 4-382-854-11 | SCREW (M3X10), P, SW (+); Q1765                |        | C506          | 1-136-165-00 | FILM 0.1MF 5% 50V                                                                   |        |
| Q1766         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                         |        | C507          | 1-124-480-11 | ELECT 470MF 20% 25V                                                                 |        |
| Q1767         | 8-729-142-86 | TRANSISTOR 2SC3733                             |        | C509          | 1-130-471-00 | MYLAR 0.001MF 5% 50V                                                                |        |
|               | <RESISTOR>   |                                                |        | C510          | 1-126-529-11 | ELECT 0.47MF 20% 50V                                                                |        |
| R1736         | 1-249-419-11 | CARBON 1.5K 5% 1/4W                            |        | C511          | 1-126-233-11 | ELECT 22MF 20% 50V                                                                  |        |
| R1751         | 1-249-434-11 | CARBON 27K 5% 1/4W                             |        | C512          | 1-130-491-00 | MYLAR 0.047MF 5% 50V                                                                |        |
| R1752         | 1-249-423-11 | CARBON 3.3K 5% 1/4W                            |        | C513          | 1-124-477-11 | ELECT 47MF 20% 25V                                                                  |        |
| R1753         | 1-249-405-11 | CARBON 100 5% 1/4W                             |        | C514          | 1-124-790-11 | ELECT 0.47MF 20% 100V                                                               |        |
| R1754         | 1-247-903-00 | CARBON 1M 5% 1/4W                              |        | C515          | 1-126-233-11 | ELECT 22MF 20% 50V                                                                  |        |
| R1755         | 1-249-421-11 | CARBON 2.2K 5% 1/4W                            |        | C516          | 1-124-791-11 | ELECT 1MF 20% 50V                                                                   |        |
| R1762         | 1-249-409-11 | CARBON 220 5% 1/4W                             |        | C517          | 1-102-114-00 | CERAMIC 470PF 10% 50V                                                               |        |
| R1764         | 1-247-734-11 | CARBON 39 5% 1/2W                              | F      | C518          | 1-124-499-11 | ELECT 1MF 20% 50V                                                                   |        |
| R1765         | 1-249-414-11 | CARBON 560 5% 1/4W                             | F      | C519          | 1-102-110-00 | CERAMIC 220PF 10% 50V                                                               |        |
| R1766         | 1-249-418-11 | CARBON 1.2K 5% 1/4W                            |        | C520          | 1-102-942-00 | CERAMIC 5PF 0.5PF 50V                                                               |        |
| R1768         | 1-249-418-11 | CARBON 1.2K 5% 1/4W                            |        | C521          | 1-124-480-11 | ELECT 470MF 20% 25V                                                                 |        |
| R1769         | 1-249-384-11 | CARBON 1.8 5% 1/4W                             | F      | C522          | 1-124-261-00 | ELECT 10MF 20% 50V                                                                  |        |
| R1770         | 1-249-435-11 | CARBON 33K 5% 1/4W                             |        | C523          | 1-130-471-00 | MYLAR 0.001MF 5% 50V                                                                |        |
| R1772         | 1-249-432-11 | CARBON 18K 5% 1/4W                             |        | C524          | 1-162-318-11 | CERAMIC 0.001MF 10% 500V                                                            |        |
| R1774         | 1-216-476-11 | METAL OXIDE 180 5% 3W                          | F      | C525          | 1-130-495-00 | MYLAR 0.1MF 5% 50V                                                                  |        |
| R1775         | 1-249-417-11 | CARBON 1K 5% 1/4W                              | F      | C526          | 1-126-176-11 | ELECT 220MF 20% 10V                                                                 |        |
| R1776         | 1-249-432-11 | CARBON 18K 5% 1/4W                             |        | C527          | 1-124-911-11 | ELECT 220MF 20% 50V                                                                 |        |
| R1777         | 1-249-438-11 | CARBON 56K 5% 1/4W                             |        | C528          | 1-162-117-00 | CERAMIC 100PF 10% 500V                                                              |        |
| R1778         | 1-249-430-11 | CARBON 12K 5% 1/4W                             |        | C529          | 1-136-171-00 | FILM 0.33MF 5% 50V                                                                  |        |
| R1779         | 1-249-414-11 | CARBON 560 5% 1/4W                             |        | C530          | 1-106-222-00 | MYLAR 0.12MF 10% 100V                                                               |        |
| R1780         | 1-249-420-11 | CARBON 1.8K 5% 1/4W                            |        | C531          | 1-130-471-00 | MYLAR 0.001MF 5% 50V                                                                |        |
| R1781         | 1-249-415-11 | CARBON 680 5% 1/4W                             |        | C532          | 1-106-391-12 | MYLAR 0.1MF 10% 200V                                                                |        |
| R1782         | 1-249-384-11 | CARBON 1.8 5% 1/4W                             | F      | C533          | 1-130-651-00 | FILM 0.001MF 2% 100V                                                                |        |
| R1783         | 1-249-441-11 | CARBON 100K 5% 1/4W                            |        | C534          | 1-162-132-00 | CERAMIC 270PF 10% 2KV                                                               |        |
| R1784         | 1-249-405-11 | CARBON 100 5% 1/4W                             |        | C535          | 1-124-472-11 | ELECT 470MF 20% 10V                                                                 |        |
| R1785         | 1-249-400-11 | CARBON 39 5% 1/4W                              | F      | C537          | 1-106-355-12 | MYLAR 0.0033MF 200V                                                                 |        |
| R1786         | 1-249-435-11 | CARBON 33K 5% 1/4W                             |        | C538          | 1-137-514-21 | FILM 0.021MF 2% 200V                                                                |        |
| R1787         | 1-249-428-11 | CARBON 8.2K 5% 1/4W                            |        | C539 $\Delta$ | 1-162-116-91 | CERAMIC 680PF 10% 2KV                                                               |        |
| R1788         | 1-249-418-11 | CARBON 1.2K 5% 1/4W                            |        | C540          | 1-136-161-00 | FILM 0.047MF 5% 50V                                                                 |        |
| R1789         | 1-249-413-11 | CARBON 470 5% 1/4W                             |        | C541          | 1-137-515-11 | FILM 0.056MF 3% 400V                                                                |        |
| R1790         | 1-216-451-11 | METAL OXIDE 120 5% 2W                          | F      | C542 $\Delta$ | 1-162-116-91 | CERAMIC 680PF 10% 2KV                                                               |        |
| R1791         | 1-249-411-11 | CARBON 330 5% 1/4W                             |        | C543 $\Delta$ | 1-162-116-91 | CERAMIC 680PF 10% 2KV                                                               |        |
|               | *****        |                                                |        | C544          | 1-130-495-00 | MYLAR 0.1MF 5% 50V                                                                  |        |
|               |              |                                                |        | C545          | 1-124-510-11 | ELECT 220MF 20% 25V                                                                 |        |
| *A-1346-075-A |              | D BOARD, COMPLETE (KV-S29JN1, S29MN1)<br>***** |        |               | 1-124-480-11 | ELECT 470MF 20% 25V                                                                 |        |
| *A-1346-110-A |              | D BOARD, COMPLETE (KV-S29SN1)<br>*****         |        | C546          | 1-130-487-00 | MYLAR 0.022MF 5% 50V                                                                |        |
| *A-1346-064-A |              | D BOARD, COMPLETE (KV-S34JN1)<br>*****         |        | C547          | 1-106-359-00 | MYLAR 0.0047MF 10% 200V                                                             |        |
| *A-1346-106-A |              | D BOARD, COMPLETE (KV-S34MN1)<br>*****         |        | C549          | 1-124-477-11 | ELECT 47MF 20% 25V                                                                  |        |
|               |              |                                                |        | C550          | 1-137-114-11 | FILM 0.68MF 5% 200V                                                                 |        |
|               |              |                                                |        | C551          | 1-136-167-00 | FILM 0.15MF 5% 50V                                                                  |        |
|               |              |                                                |        | C553          | 1-136-105-00 | FILM 0.33MF 5% 200V                                                                 |        |

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| REF.NO.     | PART NO.      | DESCRIPTION                   | REMARK                                        | REF.NO.      | PART NO.     | DESCRIPTION                                                  | REMARK |
|-------------|---------------|-------------------------------|-----------------------------------------------|--------------|--------------|--------------------------------------------------------------|--------|
| C554        | 1-124-808-51  | ELECT                         | 10MF 20% 200V                                 | D510         | 8-719-911-19 | DIODE 1SS119                                                 |        |
| C555        | 1-137-516-11  | FILM                          | 1.2MF 5% 200V                                 | D511         | 8-719-110-03 | DIODE RD7.5ES-B2                                             |        |
| C556        | 1-124-514-11  | ELECT                         | 100MF 20% 50V                                 | D512         | 8-719-110-72 | DIODE RD30ES-B2                                              |        |
| C557        | 1-124-477-11  | ELECT                         | 47MF 20% 25V                                  | D513         | 8-719-300-33 | DIODE RU-3AM                                                 |        |
| C558        | 1-102-038-00  | CERAMIC                       | 0.001MF 500V                                  | D515         | 8-719-109-88 | DIODE RD5.6ES-B1                                             |        |
| C560        | 1-106-391-12  | MYLAR                         | 0.1MF 10% 200V                                | D516         | 8-719-300-33 | DIODE RU-3AM                                                 |        |
| C561        | 1-102-244-00  | CERAMIC                       | 220PF 10% 500V                                | D517         | 8-719-110-78 | DIODE RD33ES-B2                                              |        |
| C563        | 1-106-343-00  | MYLAR                         | 0.001MF 10% 100V                              | D519         | 8-719-911-55 | DIODE U05G                                                   |        |
| C565        | 1-130-495-00  | MYLAR                         | 0.1MF 5% 50V                                  | D520         | 8-719-911-19 | DIODE 1SS119                                                 |        |
| C566        | 1-124-261-00  | ELECT                         | 10MF 20% 50V                                  | D521         | 8-719-911-55 | DIODE U05G                                                   |        |
| C567        | 1-124-480-11  | ELECT                         | 470MF 20% 25V                                 | D522         | 8-719-976-64 | DIODE RGP02-17                                               |        |
| C568        | 1-102-228-00  | CERAMIC                       | 470PF 10% 500V                                | D523         | 8-719-109-84 | DIODE RD5.1ES-B1                                             |        |
| C569        | 1-136-161-00  | FILM                          | 0.047MF 5% 50V                                | D524         | 8-719-312-72 | DIODE RU30A                                                  |        |
| C570        | 1-124-120-11  | ELECT                         | 220MF 20% 25V<br>(KV-S29JN1, S29MN1, S29SN1)  | D526         | 8-719-911-19 | DIODE 1SS119                                                 |        |
| C571        | 1-130-467-00  | MYLAR                         | 470PF 5% 50V                                  | D527         | 8-719-300-33 | DIODE RU-3AM                                                 |        |
| C575        | 1-137-116-11  | FILM                          | 1MF 5% 200V<br>(KV-S29JN1, S29MN1, S29SN1)    | D528         | 8-719-979-85 | DIODE EGP20G                                                 |        |
|             | 1-137-114-11  | FILM                          | 0.68MF 5% 200V<br>(KV-S34JN1, S34MN1, S34SN1) | D531         | 8-719-911-19 | DIODE 1SS119                                                 |        |
| C577        | 1-123-947-00  | ELECT                         | 10MF 20% 250V                                 | D532         | 8-719-943-06 | DIODE ERB24-06D                                              |        |
| C578        | 1-124-907-11  | ELECT                         | 10MF 20% 50V                                  | D533         | 8-719-970-87 | DIODE ERA38-06                                               |        |
| C579        | 1-123-950-00  | ELECT                         | 47MF 20% 250V                                 | D534         | 8-719-018-82 | DIODE RGP02-20EL-6394                                        |        |
| C581        | 1-124-480-11  | ELECT                         | 470MF 20% 25V                                 | D535         | 8-719-110-13 | DIODE RD9.1ES-B2                                             |        |
| C582        | 1-102-228-00  | CERAMIC                       | 470PF 10% 500V                                | D536         | 1-249-429-11 | CARBON 10K 5% 1/4W                                           |        |
| C583        | 1-124-910-11  | ELECT                         | 47MF 20% 50V                                  | <IC>         |              |                                                              |        |
| C585        | 1-136-497-81  | FILM                          | 0.1MF 5% 50V                                  | IC501        | 1-809-538-11 | IC PM-26                                                     |        |
| C586        | 1-106-387-00  | MYLAR                         | 0.068MF 10% 200V                              | IC502        | 8-759-987-16 | IC LM393P                                                    |        |
| C587        | 1-129-898-00  | FILM                          | 0.0022MF 5% 630V                              | IC503        | 8-759-506-46 | IC TDA8179S                                                  |        |
| C588        | 1-136-169-00  | FILM                          | 0.22MF 5% 50V                                 |              | 4-382-854-11 | SCREW (M3X10), P, SW (+); IC503                              |        |
| C589        | 1-124-347-00  | ELECT                         | 100MF 20% 160V                                | IC504        | 8-759-982-13 | IC RC7812FA                                                  |        |
| C590        | 1-102-244-00  | CERAMIC                       | 220PF 10% 500V                                |              | 4-382-854-11 | SCREW (M3X10), P, SW (+); IC504                              |        |
| C592        | 1-129-702-00  | FILM                          | 0.001MF 10% 630V                              | IC507        | 8-759-987-16 | IC LM393P                                                    |        |
| C593        | 1-162-114-00  | CERAMIC                       | 0.0047MF 2KV                                  | IC508        | 8-759-142-04 | IC UPC7893HF                                                 |        |
| C594        | 1-136-314-91  | FILM                          | 0.022MF 5% 630V                               |              | 4-382-854-11 | SCREW (M3X10), P, SW (+); IC508                              |        |
| C595        | 1-124-797-11  | ELECT                         | 0.47MF 20% 160V                               | IC509        | 8-759-802-23 | IC L780512                                                   |        |
| C600        | 1-130-495-00  | MYLAR                         | 0.1MF 5% 50V                                  |              | 4-382-854-11 | SCREW (M3X10), P, SW (+); IC509                              |        |
| <CONNECTOR> |               |                               |                                               | <COIL>       |              |                                                              |        |
| CN501       | *1-564-513-11 | PLUG, CONNECTOR 10P           |                                               | L501         | 1-412-531-31 | INDUCTOR 33UH<br>(KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1) |        |
| CN502       | 1-573-296-11  | CONNECTOR, BOARD TO BOARD 10P |                                               | L504         | 1-410-455-11 | INDUCTOR 10MMH                                               |        |
| CN503       | *1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P  |                                               | L505         | 1-412-531-31 | INDUCTOR 33UH<br>(KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1) |        |
| CN504       | *1-580-798-11 | CONNECTOR PIN (DY) 6P         |                                               | L506         | 1-459-483-00 | COIL (WITH CORE)                                             |        |
| CN505       | *1-564-513-11 | PLUG, CONNECTOR 10P           |                                               | L507         | 1-421-541-00 | COIL, CHOKE 1000UH                                           |        |
| CN506       | *1-573-986-11 | PIN, CONNECTOR (PC BOARD) 5P  |                                               | L509         | 1-459-104-00 | COIL, WITH CORE                                              |        |
| CN507       | 1-573-296-11  | CONNECTOR, BOARD TO BOARD 10P |                                               | L510         | 1-460-197-11 | COIL, FERRITE (PMC)                                          |        |
| CN508       | 1-573-296-11  | CONNECTOR, BOARD TO BOARD 10P |                                               | L511         | 1-412-519-11 | INDUCTOR 3.3UH                                               |        |
| CN510       | *1-508-767-00 | PIN, CONNECTOR (5MM PITCH) 5P |                                               | L512         | 1-459-123-00 | COIL, DUST CORE (PAC)                                        |        |
| CN511       | *1-508-784-00 | PIN, CONNECTOR (5MM PITCH) 1P |                                               | L513         | 1-412-519-11 | INDUCTOR 3.3UH                                               |        |
| <DIODE>     |               |                               |                                               | L514         | 1-412-531-31 | INDUCTOR 33UH<br>(KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1) |        |
| D501        | 8-719-911-19  | DIODE 1SS119                  |                                               | L516         | 1-412-552-31 | INDUCTOR 2.2MMH                                              |        |
| D502        | 8-719-109-88  | DIODE RD5.6ES-B1              |                                               | L517         | 1-459-104-00 | COIL, DUST CORE                                              |        |
| D503        | 8-719-109-88  | DIODE RD5.6ES-B1              |                                               | <TRANSISTOR> |              |                                                              |        |
| D504        | 8-719-109-93  | DIODE RD6.2ES-B2              |                                               | Q501         | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                                       |        |
| D505        | 8-719-911-19  | DIODE 1SS119                  |                                               | Q502         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                                       |        |
| D506        | 8-719-911-19  | DIODE 1SS119                  |                                               | Q503         | 8-729-119-78 | TRANSISTOR 2SC2785-HFE                                       |        |
| D507        | 8-719-911-19  | DIODE 1SS119                  |                                               | Q504         | 8-729-119-76 | TRANSISTOR 2SA1175-HFE                                       |        |
| D508        | 8-719-911-19  | DIODE 1SS119                  |                                               |              |              |                                                              |        |
| D509        | 8-719-911-55  | DIODE U05G                    |                                               |              |              |                                                              |        |



D

| REF.NO.    | PART NO.     | DESCRIPTION                    | REMARK | REF.NO. | PART NO.     | DESCRIPTION                                 | REMARK |
|------------|--------------|--------------------------------|--------|---------|--------------|---------------------------------------------|--------|
| Q505       | 8-729-119-78 | TRANSISTOR 2SC2785-HFE         |        | R549    | 1-216-481-11 | METAL OXIDE 1.2K 5% 3W                      | F      |
| Q506       | 8-729-119-78 | TRANSISTOR 2SC2785-HFE         |        | R550    | 1-249-393-11 | CARBON 10 5% 1/4W                           | F      |
| Q507       | 8-729-119-80 | TRANSISTOR 2SC2688-LK          |        | R551    | 1-249-401-11 | CARBON 47 5% 1/4W                           |        |
| Q508       | 8-729-140-97 | TRANSISTOR 2SB734-34           |        | R552    | 1-249-419-11 | CARBON 1.5K 5% 1/4W                         |        |
| Q509       | 8-729-140-96 | TRANSISTOR 2SD774-34           |        | R553    | 1-215-878-00 | METAL OXIDE 33K 5% 1W                       | F      |
| Q510       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE         |        | R554    | 1-249-417-11 | CARBON 1K 5% 1/4W                           |        |
| Q511       | 8-729-011-00 | TRANSISTOR 2SK1916-53F87       |        | R555    | 1-249-432-11 | CARBON 18K 5% 1/4W                          |        |
|            | 4-382-854-11 | SCREW (M3X10), P, SW (+); Q511 |        | R556    | 1-249-432-11 | CARBON 18K 5% 1/4W                          |        |
| Q512       | 8-729-011-07 | TRANSISTOR 2SC4763 (LBSONY)    |        | R557    | 1-249-437-11 | CARBON 47K 5% 1/4W                          |        |
|            | 4-382-854-11 | SCREW (M3X10), P, SW (+); Q512 |        | R558    | 1-247-887-00 | CARBON 220K 5% 1/4W                         |        |
| Q513       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE         |        | R559    | 1-249-429-11 | CARBON 10K 5% 1/4W                          |        |
| Q514       | 8-729-900-36 | TRANSISTOR DTC124ES            |        | R560    | 1-215-888-00 | METAL OXIDE 220 5% 2W                       | F      |
| Q515       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE         |        | R561    | 1-249-437-11 | CARBON 47K 5% 1/4W                          |        |
| Q519       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE         |        | R562    | 1-249-431-11 | CARBON 15K 5% 1/4W                          |        |
| Q520       | 8-729-119-78 | TRANSISTOR 2SC2785-HFE         |        | R563    | 1-249-425-11 | CARBON 4.7K 5% 1/4W                         |        |
| Q521       | 8-729-900-36 | TRANSISTOR DTC124ES            |        | R564    | 1-249-417-11 | CARBON 1K 5% 1/4W                           | F      |
| Q523       | 8-729-011-06 | TRANSISTOR 2SC3840K            |        | R566    | 1-215-883-11 | METAL OXIDE 33 5% 2W                        | F      |
| <RESISTOR> |              |                                |        |         |              | (KV-S29JN1, S29MN1, S34JN1, S34SN1)         |        |
| R501       | 1-215-449-00 | METAL 15K 1% 1/4W              |        |         | 1-216-361-00 | METAL OXIDE 0.22 5% 2W                      | F      |
| R502       | 1-249-423-11 | CARBON 3.3K 5% 1/4W            |        |         |              | (KV-S29SN1, S34MN1)                         |        |
| R503       | 1-249-441-11 | CARBON 100K 5% 1/4W            |        | R567    | 1-215-889-00 | METAL OXIDE 330 5% 2W                       | F      |
| R504       | 1-249-441-11 | CARBON 100K 5% 1/4W            |        |         |              | (KV-S29JN1, S29MN1, S34JN1, S34SN1)         |        |
| R505       | 1-247-887-00 | CARBON 220K 5% 1/4W            |        |         | 1-215-886-11 | METAL OXIDE 100 5% 2W                       | F      |
| R506       | 1-249-440-11 | CARBON 82K 5% 1/4W             |        |         | 1-215-885-00 | METAL OXIDE 68 5% 2W                        | F      |
| R507       | 1-249-425-11 | CARBON 4.7K 5% 1/4W            |        |         |              | (KV-S29SN1)                                 |        |
| R508       | 1-249-435-11 | CARBON 33K 5% 1/4W             |        | R569    | 1-215-881-11 | METAL OXIDE 15 5% 2W                        | F      |
| R509       | 1-249-441-11 | CARBON 100K 5% 1/4W            |        | R571    | 1-215-887-00 | METAL OXIDE 150 5% 2W                       | F      |
| R510       | 1-249-433-11 | CARBON 22K 5% 1/4W             |        |         | 1-215-889-00 | METAL OXIDE 330 5% 2W                       | F      |
| R511       | 1-249-425-11 | CARBON 4.7K 5% 1/4W            |        |         |              | (KV-S29JN1, S29MN1, S34JN1, S34SN1)         |        |
| R512       | 1-249-433-11 | CARBON 22K 5% 1/4W             |        |         |              | (KV-S29SN1)                                 |        |
| R513       | 1-249-441-11 | CARBON 100K 5% 1/4W            |        | R572    | 1-215-909-11 | METAL OXIDE 47 5% 3W                        | F      |
| R514       | 1-249-436-11 | CARBON 39K 5% 1/4W             |        |         |              | (KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1) |        |
| R515       | 1-215-468-00 | METAL 91K 1% 1/4W              |        |         | 1-215-912-11 | METAL OXIDE 150 5% 3W                       | F      |
| R516       | 1-249-425-11 | CARBON 4.7K 5% 1/4W            |        |         |              | (KV-S34MN1)                                 |        |
| R517       | 1-249-433-11 | CARBON 22K 5% 1/4W             |        | R573    | 1-249-440-11 | CARBON 82K 5% 1/4W                          |        |
| R518       | 1-249-438-11 | CARBON 56K 5% 1/4W             |        | R574    | 1-247-903-00 | CARBON 1M 5% 1/4W                           |        |
| R519       | 1-215-880-00 | METAL OXIDE 10 5% 2W           | F      | R575    | 1-249-429-11 | CARBON 10K 5% 1/4W                          |        |
| R520       | 1-249-411-11 | CARBON 330 5% 1/4W             | F      | R576    | 1-249-417-11 | CARBON 1K 5% 1/4W                           |        |
| R521       | 1-215-449-00 | METAL 15K 1% 1/4W              |        | R577    | 1-249-389-11 | CARBON 4.7 5% 1/4W                          | F      |
| R522       | 1-249-425-11 | CARBON 4.7K 5% 1/4W            |        | R578    | 1-247-743-11 | CARBON 220 5% 1/2W                          | F      |
| R524       | 1-215-433-00 | METAL 3.3K 1% 1/4W             |        | R579    | 1-249-417-11 | CARBON 1K 5% 1/4W                           |        |
| R525       | 1-215-463-00 | METAL 56K 1% 1/4W              |        | R581    | 1-249-421-11 | CARBON 2.2K 5% 1/4W                         |        |
| R526       | 1-249-436-11 | CARBON 39K 5% 1/4W             |        | R582    | 1-249-424-11 | CARBON 3.9K 5% 1/4W                         |        |
| R527       | 1-249-431-11 | CARBON 15K 5% 1/4W             |        | R585    | 1-249-429-11 | CARBON 10K 5% 1/4W                          |        |
| R528       | 1-215-445-00 | METAL 10K 1% 1/4W              |        | R586    | 1-249-437-11 | CARBON 47K 5% 1/4W                          |        |
| R529       | 1-215-471-00 | METAL 120K 1% 1/4W             |        | R588    | 1-249-415-11 | CARBON 680 5% 1/4W                          |        |
| R530       | 1-249-425-11 | CARBON 4.7K 5% 1/4W            |        | R590    | 1-249-438-11 | CARBON 56K 5% 1/4W                          |        |
| R531       | 1-249-423-11 | CARBON 3.3K 5% 1/4W            |        | R593    | 1-249-441-11 | CARBON 100K 5% 1/4W                         |        |
| R532       | 1-215-453-00 | METAL 22K 1% 1/4W              |        | R594    | 1-249-437-11 | CARBON 47K 5% 1/4W                          |        |
| R534       | 1-247-903-00 | CARBON 1M 5% 1/4W              |        | R597    | 1-247-705-11 | CARBON 270 5% 1/4W                          | F      |
| R535       | 1-249-393-11 | CARBON 10 5% 1/4W              | F      | R603    | 1-215-450-00 | METAL 16K 1% 1/4W                           |        |
| R536       | 1-215-455-00 | METAL 27K 1% 1/4W              |        | R605    | 1-249-402-11 | CARBON 56 5% 1/4W                           |        |
| R537       | 1-247-755-11 | CARBON 1.8K 5% 1/2W            | F      | R606    | 1-249-411-11 | CARBON 330 5% 1/4W                          |        |
| R538       | 1-249-383-11 | CARBON 1.5 5% 1/4W             | F      | R607    | 1-215-882-00 | METAL OXIDE 22 5% 2W                        | F      |
| R539       | 1-249-417-11 | CARBON 1K 5% 1/4W              |        | R608    | 1-247-901-11 | CARBON 820K 5% 1/4W                         |        |
| R541       | 1-215-457-00 | METAL 33K 1% 1/4W              |        | R609    | 1-249-441-11 | CARBON 100K 5% 1/4W                         |        |
| R542       | 1-215-465-00 | METAL 68K 1% 1/4W              |        | R612    | 1-249-443-11 | CARBON 0.47 5% 1/4W                         | F      |
| R543       | 1-215-913-11 | METAL OXIDE 220 5% 3W          | F      | R614    | 1-249-435-11 | CARBON 33K 5% 1/4W                          |        |
| R544       | 1-249-397-11 | CARBON 22 5% 1/4W              | F      | R616    | 1-249-443-11 | CARBON 0.47 5% 1/4W                         | F      |
| R545       | 1-215-441-00 | METAL 6.8K 1% 1/4W             |        |         |              |                                             |        |
| R546       | 1-216-369-00 | METAL OXIDE 1 5% 2W            | F      |         |              |                                             |        |
| R548       | 1-215-917-11 | METAL OXIDE 1K 5% 3W           | F      |         |              |                                             |        |

D

V

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

| REF.NO. | PART NO.              | DESCRIPTION                           | REMARK         | REF.NO. | PART NO.              | DESCRIPTION            | REMARK     |
|---------|-----------------------|---------------------------------------|----------------|---------|-----------------------|------------------------|------------|
| R623    | 1-259-882-11          | CARBON                                | 3.3M 5% 1/4W   | D15     | 8-719-911-19          | DIODE ISS119           |            |
| R624    | 1-216-439-00          | METAL OXIDE                           | 12K 5% 1W F    |         |                       | <IC>                   |            |
| R625    | 1-216-459-00          | METAL OXIDE                           | 2.7K 5% 2W F   | IC01    | 8-759-067-58          | IC MAB8461P-W220       |            |
| R627    | 1-216-459-00          | METAL OXIDE                           | 2.7K 5% 2W F   | IC02    | 8-759-067-32          | IC SAA5246AP/T         |            |
| R628    | 1-249-398-11          | CARBON                                | 27 5% 1/4W F   | IC03    | 8-752-331-22          | IC CXK5864BSP-10L      |            |
|         |                       |                                       |                | IC04    | 8-759-340-13          | IC HD14013BP           |            |
| R630    | 1-215-869-11          | METAL OXIDE                           | 1K 5% 1W F     |         |                       | <COIL>                 |            |
| R634    | 1-249-441-11          | CARBON                                | 100K 5% 1/4W   | L01     | 1-410-322-11          | INDUCTOR               | 3.3UH      |
| R635    | 1-249-441-11          | CARBON                                | 100K 5% 1/4W   | L02     | 1-408-407-00          | INDUCTOR               | 6.8UH      |
| R636    | 1-249-441-11          | CARBON                                | 100K 5% 1/4W   | L03     | 1-408-407-00          | INDUCTOR               | 6.8UH      |
|         |                       |                                       |                | L04     | 1-408-407-00          | INDUCTOR               | 6.8UH      |
|         |                       | <SPARK GAP>                           |                |         |                       | <IC LINK>              |            |
| SG501   | 1-519-422-11          | GAP, SPARK                            |                | PS01    | $\Delta$ 1-532-679-91 | LINK, IC 0.6A          |            |
|         |                       | <TRANSFORMER>                         |                |         |                       | <TRANSISTOR>           |            |
| T501    | 1-437-195-11          | TRANSFORMER, HORIZONTAL DRIVE         |                | Q01     | 8-729-900-53          | TRANSISTOR DTC114EK    |            |
| T502    | 1-460-199-11          | TRANSFORMER (HLT)                     |                | Q02     | 8-729-209-15          | TRANSISTOR 2SD2012     |            |
| T503    | $\Delta$ 1-439-524-11 | TRANSFORMER ASSY, FLYBACK (NX-3000A2) |                | Q03     | 8-729-920-74          | TRANSISTOR 2SC2412K-QR |            |
| T504    | 1-424-584-11          | TRANSFORMER, DYNAMIC FOCUS            |                | Q04     | 8-729-920-74          | TRANSISTOR 2SC2412K-QR |            |
|         |                       | <THERMISTOR>                          |                | Q05     | 8-729-230-46          | TRANSISTOR 2SA1162-YG  |            |
| THP501  | $\Delta$ 1-807-925-11 | THERMISTOR                            |                | Q06     | 8-729-230-46          | TRANSISTOR 2SA1162-YG  |            |
|         |                       | *****                                 |                | Q07     | 8-729-230-46          | TRANSISTOR 2SA1162-YG  |            |
|         | *A-1347-062-A         | V BOARD, COMPLETE                     | *****          | Q08     | 8-729-920-74          | TRANSISTOR 2SC2412K-QR |            |
|         |                       | <CAPACITOR>                           |                |         |                       | <RESISTOR>             |            |
| C01     | 1-126-101-11          | ELECT                                 | 100MF 20% 16V  | JR01    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C02     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR02    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C03     | 1-124-120-11          | ELECT                                 | 220MF 20% 16V  | JR03    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C04     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR04    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C05     | 1-124-120-11          | ELECT                                 | 220MF 20% 16V  | JR05    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C06     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR06    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C07     | 1-163-093-00          | CERAMIC CHIP                          | 10PF 5% 50V    | JR07    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C08     | 1-163-097-00          | CERAMIC CHIP                          | 15PF 5% 50V    | JR08    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C09     | 1-163-141-00          | CERAMIC CHIP                          | 0.001MF 5% 50V | JR09    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C10     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR10    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C11     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR11    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C12     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR12    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C13     | 1-163-038-00          | CERAMIC CHIP                          | 0.1MF 25V      | JR13    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C14     | 1-126-101-11          | ELECT                                 | 100MF 20% 16V  | JR14    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C15     | 1-124-927-11          | ELECT                                 | 4.7MF 20% 50V  | JR15    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C16     | 1-163-141-00          | CERAMIC CHIP                          | 0.001MF 5% 50V | JR17    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| C17     | 1-163-141-00          | CERAMIC CHIP                          | 0.001MF 5% 50V | JR18    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| C23     | 1-216-295-00          | METAL GLAZE                           | 0 5% 1/10W     | JR24    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
|         |                       | <CONNECTOR>                           |                | JR28    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| CN01    | *1-565-393-11         | CONNECTOR, BOARD TO BOARD             |                | JR29    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| CN02    | *1-565-393-11         | CONNECTOR, BOARD TO BOARD             |                | JR31    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
|         |                       | <DIODE>                               |                | JR32    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| D01     | 8-719-105-92          | DIODE RD5.6M-B3                       |                | JR33    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| D03     | 8-719-914-44          | DIODE DAP202K                         |                | JR36    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| D04     | 8-719-400-18          | DIODE MA152WK                         |                | JR37    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| D05     | 8-719-914-44          | DIODE DAP202K                         |                | JR39    | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
| D06     | 8-719-400-18          | DIODE MA152WK                         |                | JR40    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| D07     | 8-719-105-52          | DIODE RD3.6M-B2                       |                | JR41    | 1-216-296-00          | METAL GLAZE            | 0 5% 1/8W  |
| D14     | 8-719-911-19          | DIODE ISS119                          |                | JR208   | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
|         |                       |                                       |                | JR209   | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |
|         |                       |                                       |                | JR210   | 1-216-295-00          | METAL GLAZE            | 0 5% 1/10W |

**Vc**

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Vc

H1

H2

| REF. NO. | PART NO.      | DESCRIPTION                   | REMARK                                      | REF. NO. | PART NO.      | DESCRIPTION                  | REMARK        |
|----------|---------------|-------------------------------|---------------------------------------------|----------|---------------|------------------------------|---------------|
| R1807    | 1-249-423-11  | CARBON                        | 3.3K 5% 1/4W                                |          |               | <COIL>                       |               |
| R1808    | 1-249-426-11  | CARBON                        | 5.6K 5% 1/4W                                |          |               |                              |               |
| R1809    | 1-249-433-11  | CARBON                        | 22K 5% 1/4W                                 | L901     | 1-410-470-11  | INDUCTOR                     | 10UH          |
| R1810    | 1-249-421-11  | CARBON                        | 2.2K 5% 1/4W                                | L902     | 1-410-470-11  | INDUCTOR                     | 10UH          |
| R1811    | 1-216-463-00  | METAL OXIDE                   | 12K 5% 2W F                                 |          |               | <RESISTOR>                   |               |
| R1812    | 1-215-875-11  | METAL OXIDE                   | 10K 5% 1W F                                 |          |               |                              |               |
| R1813    | 1-249-405-11  | CARBON                        | 100 5% 1/4W                                 | R901     | 1-249-425-11  | CARBON                       | 4.7K 5% 1/4W  |
| R1814    | 1-249-441-11  | CARBON                        | 100K 5% 1/4W                                | R902     | 1-249-423-11  | CARBON                       | 3.3K 5% 1/4W  |
| R1815    | 1-215-869-11  | METAL OXIDE                   | 1K 5% 1W F                                  | R903     | 1-249-426-11  | CARBON                       | 5.6K 5% 1/4W  |
| R1816    | 1-249-434-11  | CARBON                        | 27K 5% 1/4W                                 | R904     | 1-249-428-11  | CARBON                       | 8.2K 5% 1/4W  |
|          | 1-249-437-11  | CARBON                        | (KV-S29JN1, S29MN1, S29SN1)<br>47K 5% 1/4W  | R905     | 1-247-804-11  | CARBON                       | 75 5% 1/4W    |
| R1817    | 1-249-441-11  | CARBON                        | (KV-S34JN1, S34MN1, S34SN1)<br>100K 5% 1/4W | R906     | 1-247-804-11  | CARBON                       | 75 5% 1/4W    |
| R1818    | 1-249-406-11  | CARBON                        | 120 5% 1/4W                                 | R907     | 1-247-804-11  | CARBON                       | 75 5% 1/4W    |
|          |               | <VARIABLE RESISTOR>           |                                             | R908     | 1-247-883-00  | CARBON                       | 150K 5% 1/4W  |
| RV1801   | 1-228-993-00  | RES. ADJ. METAL GLAZE 4.7K    |                                             | R909     | 1-247-883-00  | CARBON                       | 150K 5% 1/4W  |
|          | 3-710-578-01  | COVER, VOLUME, 6 MOLD; RV1801 |                                             | R910     | 1-249-409-11  | CARBON                       | 220 5% 1/4W   |
|          |               | <TRANSFORMER>                 |                                             | R911     | 1-249-409-11  | CARBON                       | 220 5% 1/4W   |
| T1801    | 1-437-212-11  | TRANSFORMER, FERRITE (VPDT)   |                                             | R912     | 1-249-409-11  | CARBON                       | 220 5% 1/4W   |
|          |               | *****                         |                                             | R913     | 1-249-409-11  | CARBON                       | 220 5% 1/4W   |
|          | *1-643-890-11 | H1 BOARD                      | *****                                       | R914     | 1-249-425-11  | CARBON                       | 4.7K 5% 1/4W  |
|          | *4-341-751-01 | EYELET (EY901~EY903)          |                                             | R915     | 1-249-425-11  | CARBON                       | 4.7K 5% 1/4W  |
|          |               | <CAPACITOR>                   |                                             |          |               | <SWITCH>                     |               |
| C906     | 1-124-234-00  | ELECT                         | 22MF 20% 16V                                | S901     | 1-692-220-11  | SWITCH, TACTILE              |               |
| C907     | 1-101-004-00  | CERAMIC                       | 0.01MF 50V                                  | S902     | 1-692-220-11  | SWITCH, TACTILE              |               |
| C908     | 1-124-234-00  | ELECT                         | 22MF 20% 16V                                | S903     | 1-692-220-11  | SWITCH, TACTILE              |               |
| C909     | 1-124-465-00  | ELECT                         | 0.47MF 20% 50V                              | S904     | 1-692-220-11  | SWITCH, TACTILE              |               |
| C910     | 1-124-465-00  | ELECT                         | 0.47MF 20% 50V                              | S921     | 1-572-525-11  | SWITCH, PUSH (1 KEY)         |               |
|          |               | <CONNECTOR>                   |                                             |          |               | *****                        |               |
| CN901    | *1-564-509-11 | PLUG, CONNECTOR 6P            |                                             |          | *1-643-891-11 | H2 BOARD                     | *****         |
| CN902    | *1-564-506-11 | PLUG, CONNECTOR 3P            |                                             |          |               |                              |               |
| CN903    | *1-564-514-11 | PLUG, CONNECTOR 11P           |                                             |          | *4-341-751-01 | EYELET (EY1909)              |               |
| CN904    | *1-564-513-11 | PLUG, CONNECTOR 10P           |                                             |          | *4-341-752-01 | EYELET (EY1901~EY1908)       |               |
| CN905    | *1-564-505-11 | PLUG, CONNECTOR 2P            |                                             |          |               | <CAPACITOR>                  |               |
| CN906    | *1-564-507-11 | PLUG, CONNECTOR 4P            |                                             | C1911    | 1-124-477-11  | ELECT                        | 47MF 20% 16V  |
|          |               | <DIODE>                       |                                             | C1912    | 1-102-114-00  | CERAMIC                      | 470PF 10% 50V |
| D911     | 8-719-108-12  | DIODE RD9.1E-W                |                                             | C1913    | 1-124-477-11  | ELECT                        | 47MF 20% 16V  |
| D912     | 8-719-108-12  | DIODE RD9.1E-W                |                                             |          |               | <CONNECTOR>                  |               |
| D913     | 8-719-108-12  | DIODE RD9.1E-W                |                                             | CN1901   | *1-564-511-11 | PLUG, CONNECTOR 8P           |               |
| D914     | 8-719-110-13  | DIODE RD9.1ES-B2              |                                             | CN1904   | *1-580-844-11 | PIN, CONNECTOR (POWER)       |               |
| D915     | 8-719-108-12  | DIODE RD9.1E-W                |                                             | CN1905   | *1-691-961-11 | PIN, CONNECTOR (PC BOARD) 2P |               |
| D916     | 8-719-108-12  | DIODE RD9.1E-W                |                                             |          |               | <DIODE>                      |               |
| D917     | 8-719-109-93  | DIODE RD6.2ES-B2              |                                             | D1901    | 1-809-865-11  | LED UNIT                     |               |
|          |               | <JACK>                        |                                             | D1902    | 1-809-865-11  | LED UNIT                     |               |
| J901     | 1-562-837-11  | JACK                          |                                             | D1903    | 1-809-865-11  | LED UNIT                     |               |
| J902     | 1-507-967-21  | JACK                          |                                             | D1904    | 1-809-865-11  | LED UNIT                     |               |
| J903     | 1-568-678-11  | TERMINAL BLOCK, S 3P          |                                             | D1905    | 1-809-865-11  | LED UNIT                     |               |
|          |               |                               |                                             |          |               | <IC>                         |               |
|          |               |                               |                                             | IC1901   | 8-741-100-62  | IC SBX1618-51                |               |
|          |               |                               |                                             |          |               | <TRANSISTOR>                 |               |
|          |               |                               |                                             | Q1901    | 8-729-900-89  | TRANSISTOR DTC144ES          |               |
|          |               |                               |                                             | Q1902    | 8-729-900-89  | TRANSISTOR DTC144ES          |               |

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

H<sub>2</sub>

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| REF. NO.                        | PART NO.     | DESCRIPTION                | REMARK         | REF. NO.   | PART NO.     | DESCRIPTION         | REMARK       |
|---------------------------------|--------------|----------------------------|----------------|------------|--------------|---------------------|--------------|
| Q1903                           | 8-729-900-89 | TRANSISTOR DTC144ES        |                | <DIODE>    |              |                     |              |
| Q1904                           | 8-729-900-89 | TRANSISTOR DTC144ES        |                | D2301      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| Q1905                           | 8-729-900-89 | TRANSISTOR DTC144ES        |                | D2302      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| <RESISTOR>                      |              |                            |                | D2303      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| R1901                           | 1-249-413-11 | CARBON                     | 470 5% 1/4W    | D2304      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| R1902                           | 1-249-413-11 | CARBON                     | 470 5% 1/4W    | D2305      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| R1903                           | 1-249-413-11 | CARBON                     | 470 5% 1/4W    | D2306      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| R1904                           | 1-249-413-11 | CARBON                     | 470 5% 1/4W    | D2307      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| R1905                           | 1-249-413-11 | CARBON                     | 470 5% 1/4W    | D2308      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| R1911                           | 1-249-401-11 | CARBON                     | 47 5% 1/4W     | D2309      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| <SWITCH>                        |              |                            |                | D2310      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| S1901A                          | 1-571-433-12 | SWITCH, PUSH (AC POWER)    |                | D2311      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| *****                           |              |                            |                | D2312      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| *A-1388-143-A J BOARD, COMPLETE |              |                            |                | D2313      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| *****                           |              |                            |                | D2314      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| <CAPACITOR>                     |              |                            |                | D2315      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2301                           | 1-101-004-00 | CERAMIC                    | 0.01MF 50V     | D2316      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2302                           | 1-101-004-00 | CERAMIC                    | 0.01MF 50V     | D2317      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2303                           | 1-101-004-00 | CERAMIC                    | 0.01MF 50V     | D2318      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2304                           | 1-101-004-00 | CERAMIC                    | 0.01MF 50V     | D2319      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2305                           | 1-101-004-00 | CERAMIC                    | 0.01MF 50V     | D2320      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2306                           | 1-126-233-11 | ELECT                      | 22MF 20% 25V   | D2321      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2307                           | 1-126-233-11 | ELECT                      | 22MF 20% 25V   | D2322      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2308                           | 1-126-233-11 | ELECT                      | 22MF 20% 25V   | D2323      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2309                           | 1-126-233-11 | ELECT                      | 22MF 20% 25V   | D2324      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2310                           | 1-126-233-11 | ELECT                      | 22MF 20% 25V   | D2325      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2311                           | 1-126-103-11 | ELECT                      | 470MF 20% 16V  | D2326      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2312                           | 1-126-103-11 | ELECT                      | 470MF 20% 16V  | D2327      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2313                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | D2328      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2314                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | D2329      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2315                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | D2330      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2316                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | D2331      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2317                           | 1-126-103-11 | ELECT                      | 470MF 20% 16V  | D2332      | 8-719-110-13 | DIODE RD9.1ES-B2    |              |
| C2318                           | 1-126-103-11 | ELECT                      | 470MF 20% 16V  | <JACK>     |              |                     |              |
| C2319                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | J2301      | 1-573-967-11 | BLOCK, (S) TERMINAL |              |
| C2320                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | J2302      | 1-573-967-11 | BLOCK, (S) TERMINAL |              |
| C2321                           | 1-126-103-11 | ELECT                      | 470MF 20% 16V  | J2303      | 1-573-971-11 | JACK BLOCK, PIN     |              |
| C2322                           | 1-126-103-11 | ELECT                      | 470MF 20% 16V  | J2304      | 1-573-970-11 | BLOCK, (S) TERMINAL |              |
| C2323                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | J2305      | 1-573-969-11 | JACK BLOCK, PIN     |              |
| C2324                           | 1-124-902-00 | ELECT                      | 0.47MF 20% 50V | <RESISTOR> |              |                     |              |
| C2325                           | 1-124-903-11 | ELECT                      | 1MF 20% 50V    | R2301      | 1-249-403-11 | CARBON              | 68 5% 1/4W   |
| C2326                           | 1-124-903-11 | ELECT                      | 1MF 20% 50V    | R2302      | 1-249-403-11 | CARBON              | 68 5% 1/4W   |
| C2327                           | 1-124-903-11 | ELECT                      | 1MF 20% 50V    | R2303      | 1-249-403-11 | CARBON              | 68 5% 1/4W   |
| C2328                           | 1-124-903-11 | ELECT                      | 1MF 20% 50V    | R2304      | 1-247-804-11 | CARBON              | 75 5% 1/4W   |
| C2329                           | 1-124-903-11 | ELECT                      | 1MF 20% 50V    | R2305      | 1-247-804-11 | CARBON              | 75 5% 1/4W   |
| C2330                           | 1-124-903-11 | ELECT                      | 1MF 20% 50V    | R2306      | 1-247-883-00 | CARBON              | 150K 5% 1/4W |
| <CONNECTOR>                     |              |                            |                | R2307      | 1-247-883-00 | CARBON              | 150K 5% 1/4W |
| CN2301*                         | 1-565-928-11 | CONNECTOR (TUB) 30P        |                | R2308      | 1-247-804-11 | CARBON              | 75 5% 1/4W   |
| CN2302*                         | 1-566-641-11 | CONNECTOR, HINGE (TAB) 18P |                | R2309      | 1-247-804-11 | CARBON              | 75 5% 1/4W   |
| CN2303*                         | 1-564-517-11 | PLUG, CONNECTOR 2P         |                | R2310      | 1-247-883-00 | CARBON              | 150K 5% 1/4W |
| CN2304*                         | 1-564-519-11 | PLUG, CONNECTOR 4P         |                | R2311      | 1-247-883-00 | CARBON              | 150K 5% 1/4W |
| CN2305*                         | 1-564-517-11 | PLUG, CONNECTOR 2P         |                | R2312      | 1-247-804-11 | CARBON              | 75 5% 1/4W   |
| CN2307*                         | 1-564-517-11 | PLUG, CONNECTOR 2P         |                | R2313      | 1-247-883-00 | CARBON              | 150K 5% 1/4W |
|                                 |              |                            |                | R2314      | 1-247-883-00 | CARBON              | 150K 5% 1/4W |
|                                 |              |                            |                | R2315      | 1-249-403-11 | CARBON              | 68 5% 1/4W   |
|                                 |              |                            |                | R2316      | 1-249-403-11 | CARBON              | 68 5% 1/4W   |
|                                 |              |                            |                | R2317      | 1-247-895-00 | CARBON              | 470K 5% 1/4W |
|                                 |              |                            |                | R2318      | 1-247-895-00 | CARBON              | 470K 5% 1/4W |
|                                 |              |                            |                | R2319      | 1-247-895-00 | CARBON              | 470K 5% 1/4W |
|                                 |              |                            |                | R2320      | 1-247-895-00 | CARBON              | 470K 5% 1/4W |

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| REF. NO.                                          | PART NO.     | DESCRIPTION      | REMARK          | REF. NO. | PART NO.     | DESCRIPTION  | REMARK           |
|---------------------------------------------------|--------------|------------------|-----------------|----------|--------------|--------------|------------------|
| R2321                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    | C3241    | 1-124-907-11 | ELECT        | 10MF 20% 50V     |
| R2322                                             | 1-249-403-11 | CARBON           | 68 5% 1/4W      | C3242    | 1-126-233-11 | ELECT        | 22MF 20% 25V     |
| R2323                                             | 1-249-403-11 | CARBON           | 68 5% 1/4W      | C3243    | 1-136-165-00 | FILM         | 0.1MF 5% 50V     |
| R2324                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    | C3244    | 1-124-907-11 | ELECT        | 10MF 20% 50V     |
| R2325                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    | C3245    | 1-126-529-11 | ELECT        | 0.47MF 20% 50V   |
| R2326                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    | C3246    | 1-164-182-11 | CERAMIC CHIP | 0.0033MF 10% 50V |
| R2327                                             | 1-249-403-11 | CARBON           | 68 5% 1/4W      | C3247    | 1-126-529-11 | ELECT        | 0.47MF 20% 50V   |
| R2328                                             | 1-249-403-11 | CARBON           | 68 5% 1/4W      | C3248    | 1-164-182-11 | CERAMIC CHIP | 0.0033MF 10% 50V |
| R2329                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2330                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2331                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2332                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2333                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2334                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2335                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2336                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2337                                             | 1-247-895-00 | CARBON           | 470K 5% 1/4W    |          |              |              |                  |
| R2338                                             | 1-249-421-11 | CARBON           | 2.2K 5% 1/4W    |          |              |              |                  |
| R2339                                             | 1-247-804-11 | CARBON           | 75 5% 1/4W      |          |              |              |                  |
| R2340                                             | 1-247-804-11 | CARBON           | 75 5% 1/4W      |          |              |              |                  |
| R2341                                             | 1-249-425-11 | CARBON           | 4.7K 5% 1/4W    |          |              |              |                  |
| R2342                                             | 1-249-425-11 | CARBON           | 4.7K 5% 1/4W    |          |              |              |                  |
| R2343                                             | 1-249-425-11 | CARBON           | 4.7K 5% 1/4W    |          |              |              |                  |
| R2344                                             | 1-249-425-11 | CARBON           | 4.7K 5% 1/4W    |          |              |              |                  |
| R2345                                             | 1-249-425-11 | CARBON           | 4.7K 5% 1/4W    |          |              |              |                  |
| R2346                                             | 1-249-425-11 | CARBON           | 4.7K 5% 1/4W    |          |              |              |                  |
| R2347                                             | 1-249-421-11 | CARBON           | 2.2K 5% 1/4W    |          |              |              |                  |
| R2348                                             | 1-249-417-11 | CARBON           | 1K 5% 1/4W      |          |              |              |                  |
| R2349                                             | 1-249-417-11 | CARBON           | 1K 5% 1/4W      |          |              |              |                  |
| R2350                                             | 1-249-417-11 | CARBON           | 1K 5% 1/4W      |          |              |              |                  |
| R2351                                             | 1-249-417-11 | CARBON           | 1K 5% 1/4W      |          |              |              |                  |
| *****                                             |              |                  |                 |          |              |              |                  |
| *A-1390-304-A S BOARD, COMPLETE                   |              |                  |                 |          |              |              |                  |
| *****                                             |              |                  |                 |          |              |              |                  |
| <CAPACITOR>                                       |              |                  |                 |          |              |              |                  |
| C3201                                             | 1-124-910-11 | ELECT            | 47MF 20% 50V    |          |              |              |                  |
| C3205                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3217                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3218                                             | 1-126-103-11 | ELECT            | 470MF 20% 16V   |          |              |              |                  |
| C3219                                             | 1-124-477-11 | ELECT            | 47MF 20% 25V    |          |              |              |                  |
| C3221                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3222                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3223                                             | 1-130-479-00 | MYLAR            | 0.0047MF 5% 50V |          |              |              |                  |
| C3224                                             | 1-130-479-00 | MYLAR            | 0.0047MF 5% 50V |          |              |              |                  |
| C3225                                             | 1-136-177-00 | FILM             | 1MF 5% 50V      |          |              |              |                  |
| C3226                                             | 1-136-177-00 | FILM             | 1MF 5% 50V      |          |              |              |                  |
| C3227                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3228                                             | 1-124-903-11 | ELECT            | 1MF 20% 50V     |          |              |              |                  |
| C3229                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3230                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3231                                             | 1-124-903-11 | ELECT            | 1MF 20% 50V     |          |              |              |                  |
| C3232                                             | 1-124-903-11 | ELECT            | 1MF 20% 50V     |          |              |              |                  |
| C3233                                             | 1-163-157-00 | FILM             | 0.022MF 5% 50V  |          |              |              |                  |
| C3234                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3235                                             | 1-124-903-11 | ELECT            | 1MF 20% 50V     |          |              |              |                  |
| C3236                                             | 1-136-496-81 | FILM             | 0.082MF 5% 50V  |          |              |              |                  |
| C3237                                             | 1-163-157-00 | FILM             | 0.022MF 5% 50V  |          |              |              |                  |
| C3238                                             | 1-124-907-11 | ELECT            | 10MF 20% 50V    |          |              |              |                  |
| C3239                                             | 1-130-491-00 | MYLAR            | 0.047MF 5% 50V  |          |              |              |                  |
| C3240                                             | 1-130-475-00 | MYLAR            | 0.0022MF 5% 50V |          |              |              |                  |
| <CONNECTOR>                                       |              |                  |                 |          |              |              |                  |
| CN3201*1-691-632-11 CONNECTOR, BOARD TO BOARD 15P |              |                  |                 |          |              |              |                  |
| <DIODE>                                           |              |                  |                 |          |              |              |                  |
| D3201                                             | 8-719-981-50 | DIODE RB-100A    |                 |          |              |              |                  |
| D3202                                             | 8-719-109-97 | DIODE RD6.8ES-B2 |                 |          |              |              |                  |
| <IC>                                              |              |                  |                 |          |              |              |                  |
| IC3202                                            | 8-752-057-18 | IC CXA1315P      |                 |          |              |              |                  |
| IC3203                                            | 8-759-153-08 | IC UPC1891ACY    |                 |          |              |              |                  |
| IC3204                                            | 8-759-245-75 | IC TA8184P       |                 |          |              |              |                  |
| <RESISTOR>                                        |              |                  |                 |          |              |              |                  |
| JR3206                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3207                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3208                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3209                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3210                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3211                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3213                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3214                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3217                                            | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| JR3201                                            | 1-216-061-00 | METAL GLAZE      | 3.3K 5% 1/10W   |          |              |              |                  |
| R3202                                             | 1-216-061-00 | METAL GLAZE      | 3.3K 5% 1/10W   |          |              |              |                  |
| R3210                                             | 1-216-073-00 | METAL GLAZE      | 10K 5% 1/10W    |          |              |              |                  |
| R3212                                             | 1-216-073-00 | METAL GLAZE      | 10K 5% 1/10W    |          |              |              |                  |
| R3213                                             | 1-216-073-00 | METAL GLAZE      | 10K 5% 1/10W    |          |              |              |                  |
| R3215                                             | 1-216-033-00 | METAL GLAZE      | 220 5% 1/10W    |          |              |              |                  |
| R3218                                             | 1-216-033-00 | METAL GLAZE      | 220 5% 1/10W    |          |              |              |                  |
| R3220                                             | 1-216-073-00 | METAL GLAZE      | 10K 5% 1/10W    |          |              |              |                  |
| R3223                                             | 1-216-295-00 | METAL GLAZE      | 0 5% 1/10W      |          |              |              |                  |
| R3228                                             | 1-216-089-00 | METAL GLAZE      | 47K 5% 1/10W    |          |              |              |                  |
| R3229                                             | 1-216-085-00 | METAL GLAZE      | 33K 5% 1/10W    |          |              |              |                  |
| R3230                                             | 1-216-089-00 | METAL GLAZE      | 47K 5% 1/10W    |          |              |              |                  |
| R3231                                             | 1-216-085-00 | METAL GLAZE      | 33K 5% 1/10W    |          |              |              |                  |
| R3232                                             | 1-216-089-00 | METAL GLAZE      | 47K 5% 1/10W    |          |              |              |                  |
| R3233                                             | 1-216-085-00 | METAL GLAZE      | 33K 5% 1/10W    |          |              |              |                  |
| R3234                                             | 1-216-069-00 | METAL GLAZE      | 6.8K 5% 1/10W   |          |              |              |                  |
| R3235                                             | 1-216-063-00 | METAL GLAZE      | 3.9K 5% 1/10W   |          |              |              |                  |
| R3238                                             | 1-216-065-00 | METAL GLAZE      | 4.7K 5% 1/10W   |          |              |              |                  |
| R3239                                             | 1-216-065-00 | METAL GLAZE      | 4.7K 5% 1/10W   |          |              |              |                  |
| R3240                                             | 1-216-085-00 | METAL GLAZE      | 33K 5% 1/10W    |          |              |              |                  |
| R3241                                             | 1-216-069-00 | METAL GLAZE      | 6.8K 5% 1/10W   |          |              |              |                  |
| R3242                                             | 1-216-081-00 | METAL GLAZE      | 22K 5% 1/10W    |          |              |              |                  |
| R3243                                             | 1-216-085-00 | METAL GLAZE      | 33K 5% 1/10W    |          |              |              |                  |
| R3244                                             | 1-216-049-00 | METAL GLAZE      | 1K 5% 1/10W     |          |              |              |                  |
| R3245                                             | 1-216-061-00 | METAL GLAZE      | 3.3K 5% 1/10W   |          |              |              |                  |
| R3246                                             | 1-216-065-00 | METAL GLAZE      | 4.7K 5% 1/10W   |          |              |              |                  |
| R3247                                             | 1-216-119-00 | METAL GLAZE      | 820K 5% 1/10W   |          |              |              |                  |
| R3248                                             | 1-216-063-00 | METAL GLAZE      | 3.9K 5% 1/10W   |          |              |              |                  |
| R3249                                             | 1-216-089-00 | METAL GLAZE      | 47K 5% 1/10W    |          |              |              |                  |

D1

<CONNECTOR>



D1

| REF.NO.    | PART NO.     | DESCRIPTION            | REMARK | REF.NO.                                           | PART NO.     | DESCRIPTION              | REMARK |
|------------|--------------|------------------------|--------|---------------------------------------------------|--------------|--------------------------|--------|
| Q904       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        | R909                                              | 1-249-433-11 | CARBON 22K 5% 1/4W       |        |
| Q905       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        | R910                                              | 1-249-431-11 | CARBON 15K 5% 1/4W       |        |
| Q906       | 8-729-119-80 | TRANSISTOR 2SC2688-LK  |        | R911                                              | 1-247-895-00 | CARBON 470K 5% 1/4W      |        |
| Q907       | 8-729-119-80 | TRANSISTOR 2SC2688-LK  |        | R912                                              | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| Q908       | 8-729-300-80 | TRANSISTOR 2SB860      |        | R913                                              | 1-249-425-11 | CARBON 4.7K 5% 1/4W      |        |
| Q909       | 8-729-140-96 | TRANSISTOR 2SD774-34   |        | R914                                              | 1-249-401-11 | CARBON 47 5% 1/4W        |        |
| Q910       | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        | R915                                              | 1-249-425-11 | CARBON 4.7K 5% 1/4W      |        |
| Q911       | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |        | R916                                              | 1-249-421-11 | CARBON 2.2K 5% 1/4W      |        |
| Q912       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        | R917                                              | 1-249-439-11 | CARBON 68K 5% 1/4W       |        |
| Q913       | 8-729-011-02 | TRANSISTOR 2SK1917     |        | R918                                              | 1-249-413-11 | CARBON 470 5% 1/4W       |        |
| Q914       | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |        | R919                                              | 1-249-437-11 | CARBON 47K 5% 1/4W       |        |
| <RESISTOR> |              |                        |        | R920                                              | 1-249-418-11 | CARBON 1.2K 5% 1/4W      | F      |
| R801       | 1-249-409-11 | CARBON 220 5% 1/4W     | F      | R921                                              | 1-215-876-00 | METAL OXIDE 15K 5% 1W    | F      |
| R802       | 1-249-409-11 | CARBON 220 5% 1/4W     |        | R922                                              | 1-215-870-11 | METAL OXIDE 1.5K 5% 1W   | F      |
| R804       | 1-247-891-00 | CARBON 330K 5% 1/4W    |        | R923                                              | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R806       | 1-247-885-00 | CARBON 180K 5% 1/4W    |        | R924                                              | 1-249-423-11 | CARBON 3.3K 5% 1/4W      |        |
| R807       | 1-247-891-00 | CARBON 330K 5% 1/4W    |        | R925                                              | 1-249-415-11 | CARBON 680 5% 1/4W       |        |
| R808       | 1-215-461-00 | METAL 47K 1% 1/4W      |        | R926                                              | 1-249-409-11 | CARBON 220 5% 1/4W       |        |
| R809       | 1-249-423-11 | CARBON 3.3K 5% 1/4W    |        | R927                                              | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R810       | 1-249-413-11 | CARBON 470 5% 1/4W     |        | R928                                              | 1-249-421-11 | CARBON 2.2K 5% 1/4W      |        |
| R811       | 1-249-434-11 | CARBON 27K 5% 1/4W     |        | R929                                              | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R812       | 1-249-438-11 | CARBON 56K 5% 1/4W     |        | R930                                              | 1-249-434-11 | CARBON 27K 5% 1/4W       |        |
| R813       | 1-249-417-11 | CARBON 1K 5% 1/4W      |        | R931                                              | 1-249-421-11 | CARBON 2.2K 5% 1/4W      |        |
| R815       | 1-249-427-11 | CARBON 6.8K 5% 1/4W    |        | R933                                              | 1-249-421-11 | CARBON 2.2K 5% 1/4W      |        |
| R816       | 1-249-425-11 | CARBON 4.7K 5% 1/4W    |        | R934                                              | 1-249-439-11 | CARBON 68K 5% 1/4W       |        |
| R817       | 1-249-422-11 | CARBON 2.7K 5% 1/4W    |        | R935                                              | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R818       | 1-249-417-11 | CARBON 1K 5% 1/4W      |        | R936                                              | 1-249-429-11 | CARBON 10K 5% 1/4W       |        |
| R819       | 1-249-432-11 | CARBON 18K 5% 1/4W     |        | R937                                              | 1-249-421-11 | CARBON 2.2K 5% 1/4W      |        |
| R820       | 1-249-417-11 | CARBON 1K 5% 1/4W      |        | R938                                              | 1-249-405-11 | CARBON 100 5% 1/4W       |        |
| R821       | 1-216-379-11 | METAL OXIDE 6.8 5% 2W  | F      | R939                                              | 1-249-405-11 | CARBON 100 5% 1/4W       | F      |
| R822       | 1-249-423-11 | CARBON 3.3K 5% 1/4W    |        | R940                                              | 1-249-405-11 | CARBON 100 5% 1/4W       | F      |
| R824       | 1-247-713-11 | CARBON 1K 5% 1/4W      | F      | R941                                              | 1-249-405-11 | CARBON 100 5% 1/4W       |        |
| R825       | 1-215-857-11 | METAL OXIDE 10 5% 1W   | F      | R944                                              | 1-249-432-11 | CARBON 18K 5% 1/4W       |        |
| R826       | 1-249-404-00 | CARBON 82 5% 1/4W      |        | R945                                              | 1-247-895-00 | CARBON 470K 5% 1/4W      |        |
| R827       | 1-215-875-11 | METAL OXIDE 10K 5% 1W  | F      | R946                                              | 1-249-425-11 | CARBON 4.7K 5% 1/4W      |        |
| R828       | 1-249-441-11 | CARBON 100K 5% 1/4W    |        | R947                                              | 1-249-419-11 | CARBON 1.5K 5% 1/4W      | F      |
| R829       | 1-249-414-11 | CARBON 560 5% 1/4W     |        | R948                                              | 1-249-435-11 | CARBON 33K 5% 1/4W       |        |
| R830       | 1-249-411-11 | CARBON 330 5% 1/4W     |        | R950                                              | 1-249-425-11 | CARBON 4.7K 5% 1/4W      |        |
| R831       | 1-249-426-11 | CARBON 5.6K 5% 1/4W    |        | R951                                              | 1-249-433-11 | CARBON 22K 5% 1/4W       |        |
| R832       | 1-215-864-00 | METAL OXIDE 150 5% 1W  | F      | R952                                              | 1-249-405-11 | CARBON 100 5% 1/4W       |        |
| R833       | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        | R953                                              | 1-247-889-00 | CARBON 270K 5% 1/4W      |        |
| R834       | 1-249-438-11 | CARBON 56K 5% 1/4W     |        | R954                                              | 1-247-889-00 | CARBON 270K 5% 1/4W      |        |
| R835       | 1-249-393-11 | CARBON 10 5% 1/4W      |        | *****                                             |              |                          |        |
| R836       | 1-249-435-11 | CARBON 33K 5% 1/4W     |        | *A-1373-334-A D1 BOARD, COMPLETE                  |              |                          |        |
| R837       | 1-249-435-11 | CARBON 33K 5% 1/4W     |        | *****                                             |              |                          |        |
| R838       | 1-216-359-00 | METAL OXIDE 6.8 5% 1W  | F      | (KV-S34JN1, S34MN1, S34SN1)                       |              |                          |        |
| R839       | 1-249-410-11 | CARBON 270 5% 1/4W     |        | *4-341-751-01 EYELET (EY801-EY804, EY901-EY904)   |              |                          |        |
| R840       | 1-249-429-11 | CARBON 10K 5% 1/4W     |        | *4-341-752-01 EYELET (EY811, EY812, EY911, EY912) |              |                          |        |
| R841       | 1-249-437-11 | CARBON 47K 5% 1/4W     |        | 4-382-854-11 SCREW (M3X10), P. SW (+)             |              |                          |        |
| R842       | 1-249-429-11 | CARBON 10K 5% 1/4W     |        | <CAPACITOR>                                       |              |                          |        |
| R843       | 1-249-421-11 | CARBON 2.2K 5% 1/4W    |        | C801                                              | 1-124-589-11 | ELECT 47MF 20% 16V       |        |
| R845       | 1-249-431-11 | CARBON 15K 5% 1/4W     |        | C802                                              | 1-124-589-11 | ELECT 47MF 20% 16V       |        |
| R846       | 1-249-423-11 | CARBON 3.3K 5% 1/4W    |        | C804                                              | 1-130-483-00 | MYLAR 0.01MF 5% 50V      |        |
| R847       | 1-249-405-11 | CARBON 100 5% 1/4W     |        | C805                                              | 1-136-165-00 | FILM 0.1MF 5% 50V        |        |
| R901       | 1-249-425-11 | CARBON 4.7K 5% 1/4W    |        | C806                                              | 1-136-165-00 | FILM 0.1MF 5% 50V        |        |
| R902       | 1-249-438-11 | CARBON 56K 5% 1/4W     |        | C807                                              | 1-124-360-00 | ELECT 1000MF 20% 16V     |        |
| R903       | 1-249-429-11 | CARBON 10K 5% 1/4W     |        | C809                                              | 1-136-104-00 | FILM 0.16MF 5% 200V      |        |
| R904       | 1-249-429-11 | CARBON 10K 5% 1/4W     |        | C810                                              | 1-136-177-00 | FILM 1MF 5% 50V          |        |
| R905       | 1-249-429-11 | CARBON 10K 5% 1/4W     |        | C811                                              | 1-162-318-11 | CERAMIC 0.001MF 10% 500V |        |
| R906       | 1-249-425-11 | CARBON 4.7K 5% 1/4W    |        | C812                                              | 1-126-163-11 | ELECT 4.7MF 20% 50V      |        |
| R907       | 1-249-429-11 | CARBON 10K 5% 1/4W     |        |                                                   |              |                          |        |
| R908       | 1-249-437-11 | CARBON 47K 5% 1/4W     |        |                                                   |              |                          |        |

-149-

D1

## SWITCH BLOCK

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

| REF.NO. | PART NO.     | DESCRIPTION | REMARK         | REF.NO.                    | PART NO.                                 | DESCRIPTION    | REMARK        |
|---------|--------------|-------------|----------------|----------------------------|------------------------------------------|----------------|---------------|
| R817    | 1-249-424-11 | CARBON      | 3.9K 5% 1/4W   | R937                       | 1-249-421-11                             | CARBON         | 2.2K 5% 1/4W  |
| R818    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R938                       | 1-249-405-11                             | CARBON         | 100 5% 1/4W   |
| R819    | 1-249-432-11 | CARBON      | 18K 5% 1/4W    | R939                       | 1-249-405-11                             | CARBON         | 100 5% 1/4W F |
| R820    | 1-249-417-11 | CARBON      | 1K 5% 1/4W     | R940                       | 1-249-405-11                             | CARBON         | 100 5% 1/4W F |
| R821    | 1-216-379-11 | METAL OXIDE | 6.8 5% 2W F    | R941                       | 1-249-405-11                             | CARBON         | 100 5% 1/4W   |
| R822    | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W   | R944                       | 1-249-433-11                             | CARBON         | 22K 5% 1/4W   |
| R824    | 1-247-713-11 | CARBON      | 1K 5% 1/4W F   | R945                       | 1-247-895-00                             | CARBON         | 470K 5% 1/4W  |
| R825    | 1-215-861-00 | METAL OXIDE | 47 5% 1W F     | R946                       | 1-249-425-11                             | CARBON         | 4.7K 5% 1/4W  |
| R826    | 1-249-404-00 | CARBON      | 82 5% 1/4W     | R947                       | 1-249-415-11                             | CARBON         | 680 5% 1/4W F |
| R827    | 1-215-875-11 | METAL OXIDE | 10K 5% 1W F    | R948                       | 1-249-439-11                             | CARBON         | 68K 5% 1/4W   |
| R828    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   | R950                       | 1-249-425-11                             | CARBON         | 4.7K 5% 1/4W  |
| R829    | 1-249-414-11 | CARBON      | 560 5% 1/4W    | R952                       | 1-249-405-11                             | CARBON         | 100 5% 1/4W   |
| R830    | 1-249-411-11 | CARBON      | 330 5% 1/4W    | R953                       | 1-247-889-00                             | CARBON         | 270K 5% 1/4W  |
| R831    | 1-249-426-11 | CARBON      | 5.6K 5% 1/4W   | R954                       | 1-247-889-00                             | CARBON         | 270K 5% 1/4W  |
| R833    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W   | *****                      |                                          |                |               |
| R834    | 1-249-438-11 | CARBON      | 56K 5% 1/4W    | 1-466-752-11               | SWITCH BLOCK                             | *****          |               |
| R835    | 1-249-393-11 | CARBON      | 10 5% 1/4W     |                            |                                          |                |               |
| R836    | 1-249-435-11 | CARBON      | 33K 5% 1/4W    | <RESISTOR>                 |                                          |                |               |
| R837    | 1-249-435-11 | CARBON      | 33K 5% 1/4W    | R1                         | 1-216-056-00                             | METAL GLAZE    | 2K 5% 1/10W   |
| R838    | 1-216-359-00 | METAL OXIDE | 6.8 5% 1W F    | R2                         | 1-216-045-00                             | METAL GLAZE    | 680 5% 1/10W  |
| R839    | 1-249-410-11 | CARBON      | 270 5% 1/4W    | R3                         | 1-216-043-00                             | METAL GLAZE    | 560 5% 1/10W  |
| R840    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | R4                         | 1-216-041-00                             | METAL GLAZE    | 470 5% 1/10W  |
| R841    | 1-249-437-11 | CARBON      | 47K 5% 1/4W    |                            |                                          |                |               |
| R842    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | <SWITCH>                   |                                          |                |               |
| R843    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W   | S1                         | 9-902-720-01                             | TACTILE SWITCH |               |
| R845    | 1-249-431-11 | CARBON      | 15K 5% 1/4W    | S2                         | 9-902-720-01                             | TACTILE SWITCH |               |
| R846    | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W   | S3                         | 9-902-720-01                             | TACTILE SWITCH |               |
| R847    | 1-249-405-11 | CARBON      | 100 5% 1/4W    | S4                         | 9-902-720-01                             | TACTILE SWITCH |               |
| R901    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | S5                         | 9-902-720-01                             | TACTILE SWITCH |               |
| R902    | 1-249-438-11 | CARBON      | 56K 5% 1/4W    | *****                      |                                          |                |               |
| R903    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | MISCELLANEOUS              |                                          |                |               |
| R904    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | *****                      |                                          |                |               |
| R905    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | <KV-S29JN1,S29MN1,S29SN1>  |                                          |                |               |
| R906    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | $\Delta$ 1-251-027-11      | DISTRIBUTOR                              |                |               |
| R907    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | $\Delta$ 1-402-742-11      | COIL, DEGAUSSING                         |                |               |
| R908    | 1-249-435-11 | CARBON      | 33K 5% 1/4W    | $\Delta$ 1-402-743-11      | COIL, DEGAUSSING                         |                |               |
| R909    | 1-249-433-11 | CARBON      | 22K 5% 1/4W    | $\Delta$ 1-451-394-11      | DEFLECTION YOKE (Y29EXA)                 |                |               |
| R910    | 1-249-436-11 | CARBON      | 39K 5% 1/4W    | 1-452-032-00               | MAGNET, DISK; 10MM $\phi$                |                |               |
| R911    | 1-247-895-00 | CARBON      | 470K 5% 1/4W   | 1-452-094-00               | MAGNET, ROTATABLE DISK; 15MM $\phi$      |                |               |
| R912    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | $\Delta$ 1-452-616-12      | NECK ASSY, PICTURE TUBE (NA323)          |                |               |
| R913    | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W   | 1-504-121-41               | SPEAKER (SQUAWKER) (5CM)                 |                |               |
| R914    | 1-249-401-11 | CARBON      | 47 5% 1/4W     | 1-544-557-11               | SPEAKER (12CM)                           |                |               |
| R915    | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W   | *1-555-110-00              | CABLE, PIN                               |                |               |
| R916    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W   | $\Delta$ 1-696-401-11      | CORD, POWER (WITH CONNECTOR) (KV-S29JN1) |                |               |
| R917    | 1-249-439-11 | CARBON      | 68K 5% 1/4W    | $\Delta$ 1-574-062-12      | CORD, POWER (WITH CONNECTOR) (KV-S29MN1) |                |               |
| R918    | 1-249-413-11 | CARBON      | 470 5% 1/4W    | $\Delta$ 1-574-358-11      | CORD, POWER (WITH CONNECTOR) (KV-S29SN1) |                |               |
| R919    | 1-249-432-11 | CARBON      | 18K 5% 1/4W    | V901 $\Delta$ 8-733-837-05 | PICTURE TUBE (M68KUZ10X)                 |                |               |
| R920    | 1-249-418-11 | CARBON      | 1.2K 5% 1/4W F |                            | (KV-S29JN1,S29MN1)                       |                |               |
| R921    | 1-215-876-00 | METAL OXIDE | 15K 5% 1W F    | $\Delta$ 8-733-836-05      | PICTURE TUBE (M68KUZ10X) (KV-S29SN1)     |                |               |
| R922    | 1-215-862-11 | METAL OXIDE | 68 5% 1W F     |                            |                                          |                |               |
| R923    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    | <KV-S34JN1,S34MN1,S34SN1>  |                                          |                |               |
| R924    | 1-249-423-11 | CARBON      | 3.3K 5% 1/4W   | $\Delta$ 1-251-027-11      | DISTRIBUTOR                              |                |               |
| R925    | 1-249-415-11 | CARBON      | 680 5% 1/4W    | $\Delta$ 1-426-607-11      | COIL, DEGAUSSING                         |                |               |
| R926    | 1-249-409-11 | CARBON      | 220 5% 1/4W    | $\Delta$ 1-426-608-11      | COIL, DEGAUSSING                         |                |               |
| R927    | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W   | $\Delta$ 1-451-393-11      | DEFLECTION YOKE (Y34EXA)                 |                |               |
| R928    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W   | 1-452-032-00               | MAGNET, DISK; 10MM $\phi$                |                |               |
| R929    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |                            |                                          |                |               |
| R930    | 1-249-434-11 | CARBON      | 27K 5% 1/4W    |                            |                                          |                |               |
| R931    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W   |                            |                                          |                |               |
| R932    | 1-249-431-11 | CARBON      | 15K 5% 1/4W    |                            |                                          |                |               |
| R933    | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W   |                            |                                          |                |               |
| R934    | 1-249-441-11 | CARBON      | 100K 5% 1/4W   |                            |                                          |                |               |
| R935    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |                            |                                          |                |               |
| R936    | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |                            |                                          |                |               |

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

| REF. NO. | PART NO.              | DESCRIPTION                              | REMARK |
|----------|-----------------------|------------------------------------------|--------|
|          | 1-452-094-00          | MAGNET, ROTATABLE DISK; 15MM $\phi$      |        |
|          | $\Delta$ 1-452-616-12 | NECK ASSY, PICTURE TUBE (NA323)          |        |
|          | 1-504-121-41          | SPEAKER (SQUAWKER) (5CM)                 |        |
|          | 1-544-557-11          | SPEAKER (12CM)                           |        |
|          | *1-555-110-00         | CABLE, PIN                               |        |
|          | $\Delta$ 1-696-401-11 | CORD, POWER (WITH CONNECTOR) (KV-S34JN1) |        |
|          | $\Delta$ 1-574-062-12 | CORD, POWER (WITH CONNECTOR) (KV-S34MN1) |        |
|          | $\Delta$ 1-574-358-11 | CORD, POWER (WITH CONNECTOR) (KV-S34SN1) |        |
| V901     | $\Delta$ 8-733-731-05 | PICTURE TUBE (M81KVA10X) (KV-S34JN1)     |        |
|          | $\Delta$ 8-733-733-05 | PICTURE TUBE (M81KVA10X) (KV-S34MN1)     |        |
|          | $\Delta$ 8-733-732-05 | PICTURE TUBE (M81KVA10X) (KV-S34SN1)     |        |

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ACCESSORIES AND PACKING MATERIALS  
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<KV-S29JN1,S29MN1,S29SN1>

X-4030-173-1 BUCKLE ASSY (B), B  
1-466-779-11 ADAPTOR, CHANGE (KV-S29JN1)  
1-466-780-11 ADAPTOR, CHANGE (KV-S29JN1)  
3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)  
3-755-606-12 MANUAL, INSTRUCTION  
3-755-606-42 MANUAL, INSTRUCTION (KV-S29JN1,S29MN1)  
\*4-038-176-01 CUSHION (UPPER) (ASSY)  
\*4-038-177-01 CUSHION (LOWER) (ASSY)  
\*4-038-174-01 INDIVIDUAL CARTON  
\*4-038-175-01 TRAY  
\*4-030-594-01 BAG, PROTECTION  
4-392-004-01 CLIP  
\*4-396-077-01 JOINT

<KV-S34JN1,S34MN1,S34SN1>

X-4030-173-1 BUCKLE ASSY (B), B  
1-466-779-11 ADAPTOR, CHANGE (KV-S34JN1)  
1-466-780-11 ADAPTOR, CHANGE (KV-S34JN1)  
3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)  
3-755-606-12 MANUAL, INSTRUCTION  
3-755-606-42 MANUAL, INSTRUCTION (KV-S34JN1,S34MN1)  
\*4-034-198-01 CUSHION (UPPER) (ASSY)  
\*4-034-199-01 CUSHION (LOWER) (ASSY)  
\*4-036-554-01 INDIVIDUAL CARTON  
\*4-037-068-01 TRAY  
\*4-388-954-01 BAG, PROTECTION  
4-392-004-01 CLIP  
\*4-396-077-01 JOINT

REMOTE COMMANDER

1-693-173-11 REMOTE COMMANDER (RM-821)  
9-998-214-11 COVER, BATTERY (FOR RM-821)  
9-998-277-21 COVER (FOR RM-821)